

Richland County Base Labor Market Analysis



South Carolina
Department of
Commerce
Labor Market Information



October 2008

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EXECUTIVE SUMMARY

Population

Richland County's population has grown a bit faster than the state's in recent years.

Future growth is expected to be similar to the state's.

Less than half of Richland County's workers live within the county, with a significant number coming from Lexington County.

Income

Per capita income growth has been slower than the state and nation.

Richland County's per capita income remains above the state but below the national level.

Average wages in Richland County are higher than the state average in most occupational groups.

Education

The number of degrees awarded by area post-secondary institutions has increased substantially.

The greatest increase has been in the healthcare field.

Occupations

The following occupational groups are expected to grow faster in Richland County than in the state:

Healthcare practitioners and technical, and healthcare support.

Requirements for Richland County's workers are expected to grow in the following levels of education and experience:

Postsecondary vocational award, associate's degree, bachelor's degree and master's degree or higher.

Industry

Sectors rated as having high potential in Richland County are as follows:

Professional, scientific and technical services; paper manufacturing; and telecommunications.

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POPULATION

Growth

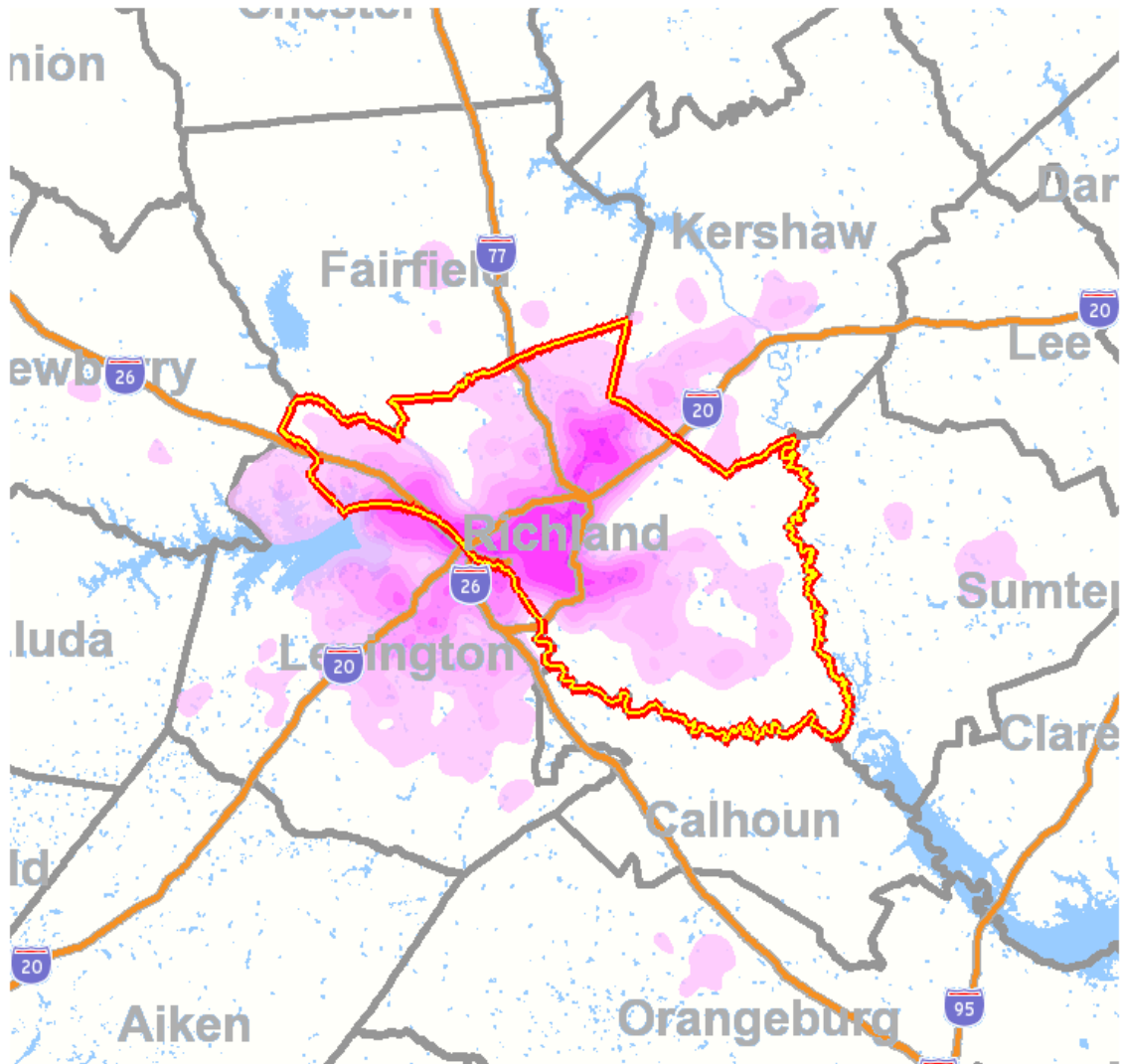
Richland County's 2007 population was 357,734. The county population has grown by 15.2% since 1997, compared to 14.2% growth for South Carolina. Richland's future population growth is expected to be similar to the state's.



Source: U.S. Census Bureau (estimates) and SC Budget & Control Board/Office of Research and Statistics (projections).

LABORSHED

The map below shows where Richland County workers come from (in 2006, latest available data). Less than half of Richland County's workers live within the county. A significant number come from Lexington County.



Source: U.S. Census Bureau, Local Employment Dynamics.

Characteristics of Workers

Age of Workers:

30 or younger	24.3%
31 to 54	58.8%
55 or older	17.0%

Earnings of Workers:

\$1,200 per month or less	22.0%
\$1,201 to \$3,400 per month	47.5%
More than \$3,400 per month	30.5%

States Where Workers Live:

South Carolina	98.8%
North Carolina	0.7%
All other locations	0.5%

Counties Where Workers Live:

Richland, South Carolina	46.1%
Lexington, South Carolina	20.9%
Kershaw, South Carolina	3.6%
Charleston, South Carolina	2.4%
Greenville, South Carolina	2.0%
Sumter, South Carolina	1.8%
Spartanburg, South Carolina	1.6%
Orangeburg, South Carolina	1.6%
Horry, South Carolina	1.4%
Aiken, South Carolina	1.3%
All Other Locations	17.1%

Cities Where Workers Live:

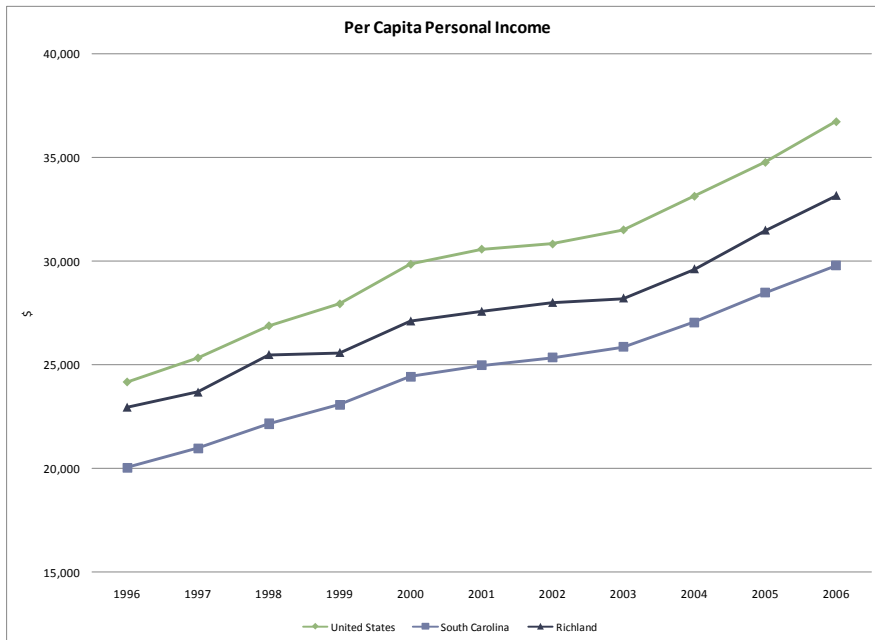
Columbia, South Carolina	13.5%
St. Andrews, South Carolina	3.2%
Seven Oaks, South Carolina	2.2%
Dentsville, South Carolina	2.0%
Forest Acres, South Carolina	1.9%
Irmo, South Carolina	1.6%
Cayce, South Carolina	1.3%
West Columbia, South Carolina	1.2%
Woodfield, South Carolina	1.2%
Lexington, South Carolina	1.1%
All Other Locations	70.7%

Source: U.S. Census Bureau, Local Employment Dynamics.

INCOME

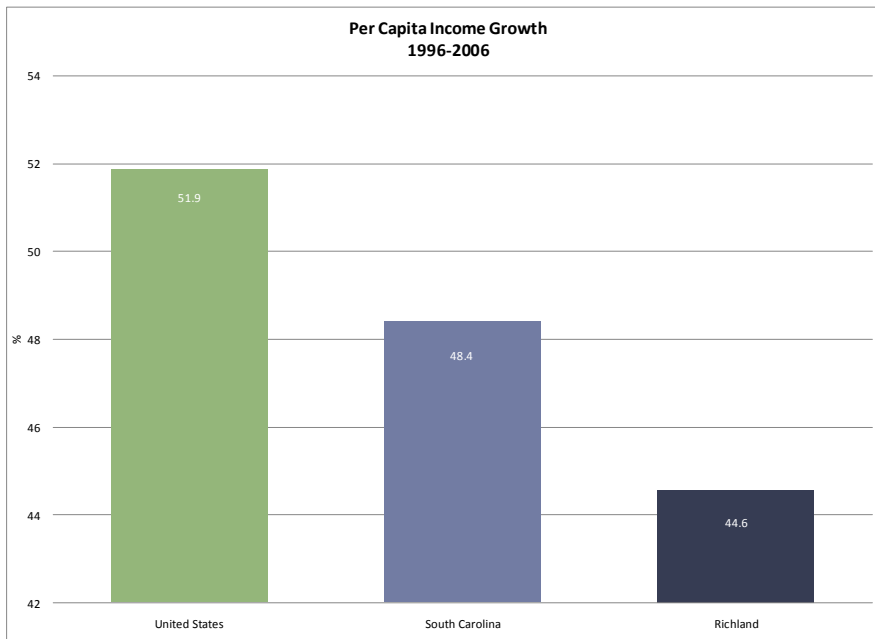
Per Capita Income

Richland County's per capita income has remained below the national level but above the state.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Richland County's per capita income has grown slower than the state's and nation's.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Wages by Industry

Richland County's average wages are above those of South Carolina (\$735 vs. \$680 in 2007). Average wages were up 21% in Richland County over the past five years, compared to 18% for the state. All major sectors except arts, entertainment and recreation had growth, led by local government.

Industry	NAICS Code	2007 Average Weekly Wage (\$)	2002 Average Weekly Wage (\$)	% Change
Total, Private and Government		735	608	21
Construction	23	810	637	27
Manufacturing	31-33	949	772	23
Retail Trade	44-45	485	457	6
Transportation and Warehousing	48-49	701	NA	
Information	51	NA	838	
Finance and Insurance	52	1,029	812	27
Real Estate and Rental and Leasing	53	744	608	22
Administration & Support & Waste Management & Remediation Services	56	415	344	21
Arts, Entertainment, and Recreation	71	267	266	0
Accommodation and Food Services	72	253	218	16
Other Services (Except Public Administration)	81	NA	438	
Federal Government		1,091	863	26
State Government		752	646	16
Local Government		711	528	35

Source: U.S. Department of Labor, Bureau of Labor Statistics, Quarterly Census of Employment and Wages.

Wages by Occupation

Average wages in Richland County are higher than the state average in most occupational groups.

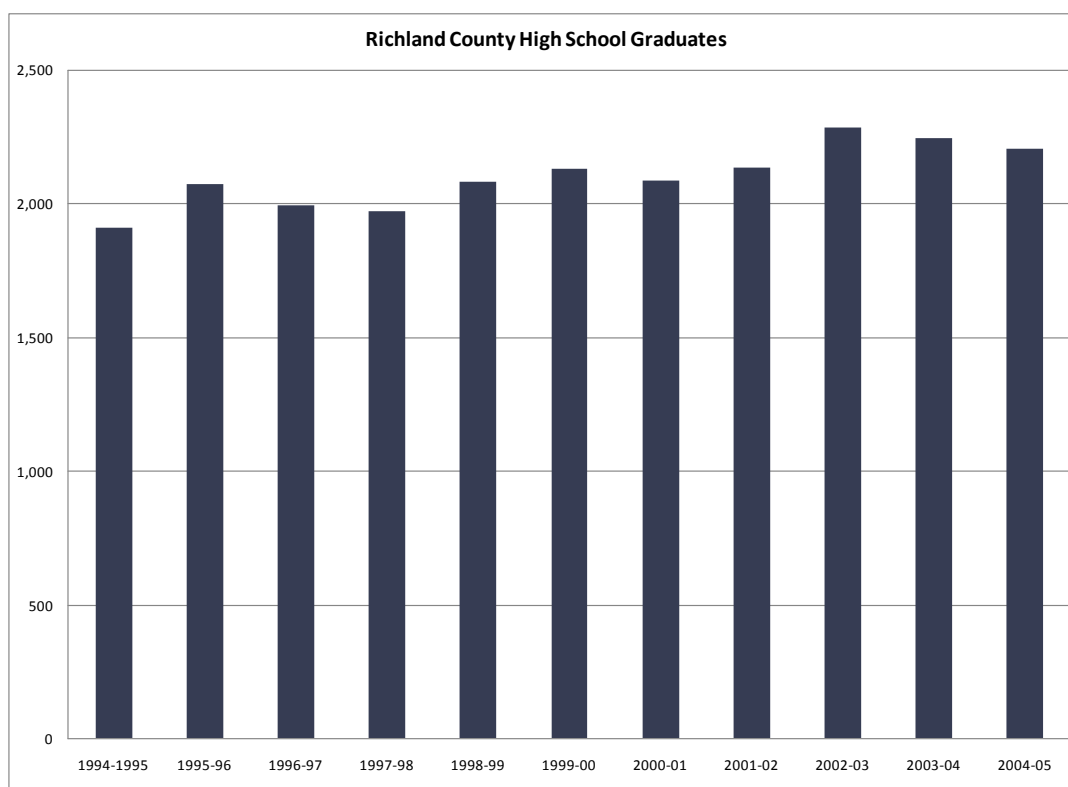
Occupation	2007 Richland County Median Hourly Wage (\$)	2007 SC Median Hourly Wage (\$)
Management occupations	34.92	28.78
Business and financial operations occupations	23.78	20.28
Computer and mathematical science occupations	28.97	26.20
Architecture and engineering occupations	28.74	30.22
Life, physical and social science occupations	23.67	22.76
Community and social services occupations	14.79	13.18
Legal occupations	34.45	30.68
Education, training and library occupations	29.31	24.42
Arts, design, entertainment, sports and media occupations	15.01	12.66
Healthcare practitioners and technical occupations	31.94	30.64
Healthcare support occupations	11.85	10.55
Protective service occupations	13.02	13.87
Food preparation and serving related occupations	8.30	7.90
Building and grounds cleaning and maintenance occupations	8.89	8.42
Personal care and service occupations	8.90	8.39
Sales and related occupations	15.99	13.48
Office and administrative support occupations	14.67	13.22
Farming, fishing, and forestry occupations	13.01	13.07
Construction and extraction occupations	18.93	16.51
Installation, maintenance and repair occupations	18.58	16.88
Production occupations	15.23	15.21
Transportation and material moving occupations	12.56	12.94

Source: Economic Modeling Specialists, Inc.

EDUCATION

High School Graduates

From 1995 to 2005 (latest data available), the number of Richland County students receiving high school diplomas rose by 293 (15%). In South Carolina, the number of high school diplomas increased 9% from 1995 to 2005. A total of 2,204 people received high school diplomas in Richland County in 2005. Richland County had 571 more 12th grade students in 2004-05 than in 1994-95. The number of Richland County students not passing the exit exam who received a certificate of completion instead of a diploma increased by 165 (to 216) over the 1995-2005 period.



Source: National Center for Education Statistics.

Higher Education Graduates

Almost 2,000 more students graduated from higher educational institutions in the Midlands area in 2006 than in 1996, an increase of 19%. The greatest numerical increase was in the healthcare field.

Program	1996	2006	Change	% Change
Agriculture, agriculture operations, and related sciences	16	4	-12	-75
Area, ethnic, cultural, and gender studies	19	26	7	37
Biological and biomedical sciences	383	424	41	11
Business, management, marketing, and related support services	1,891	2,175	284	15
Communication, journalism, and related programs	254	450	196	77
Computer and information sciences and support services	219	360	141	64
Construction trades	31	12	-19	-61
Education	1,179	1,142	-37	-3
Engineering technologies/technicians	158	196	38	24
Engineering	289	315	26	9
English language and literature/letters	279	270	-9	-3
Family and consumer sciences/human sciences	97	243	146	151
Foreign languages, literatures, and linguistics	79	70	-9	-11
Health professions and related clinical sciences	1,492	2,041	549	37
Legal professions and studies	369	409	40	11
Liberal arts and sciences, general studies and humanities	780	585	-195	-25
Library science	185	200	15	8
Mathematics and statistics	110	102	-8	-7
Mechanic and repair technologies/technicians	231	407	176	76
Multi/interdisciplinary studies	76	143	67	88
Natural resources and conservation	15	3	-12	-80
Parks, recreation, leisure, and fitness studies	126	256	130	103
Philosophy and religious studies	30	52	22	73
Physical sciences	147	146	-1	-1
Precision production	81	54	-27	-33
Psychology	291	429	138	47
Public administration and social service professions	358	378	20	6
Science technologies/technicians	6	5	-1	-17
Security and protective services	423	378	-45	-11
Social sciences	650	789	139	21
Theology and religious vocations	280	323	43	15
Visual and performing arts	195	341	146	75
TOTAL	10,739	12,728	1,989	19

Source: National Center for Education Statistics (Integrated Post Secondary Education System).

Data for these schools: Aiken Technical College, Allen University, Benedict College, Beta Tech, Central Carolina Technical College, Claflin University, Columbia College, Columbia International University, Lutheran Theological Southern Seminary, Midlands Technical College, Morris College, Newberry College, Orangeburg Calhoun Technical College, South Carolina State University, South University, University of Phoenix-Columbia Campus, University of South Carolina-Aiken, University of South Carolina-Columbia, University of South Carolina-Lancaster, University of South Carolina-Sumter and W L Bonner College

OCCUPATIONS

Occupational Projections

The following occupational groups are projected to grow faster in Richland County than in the state:

- Healthcare practitioners and technical
- Healthcare support

See **Appendix A** for detailed occupational information.

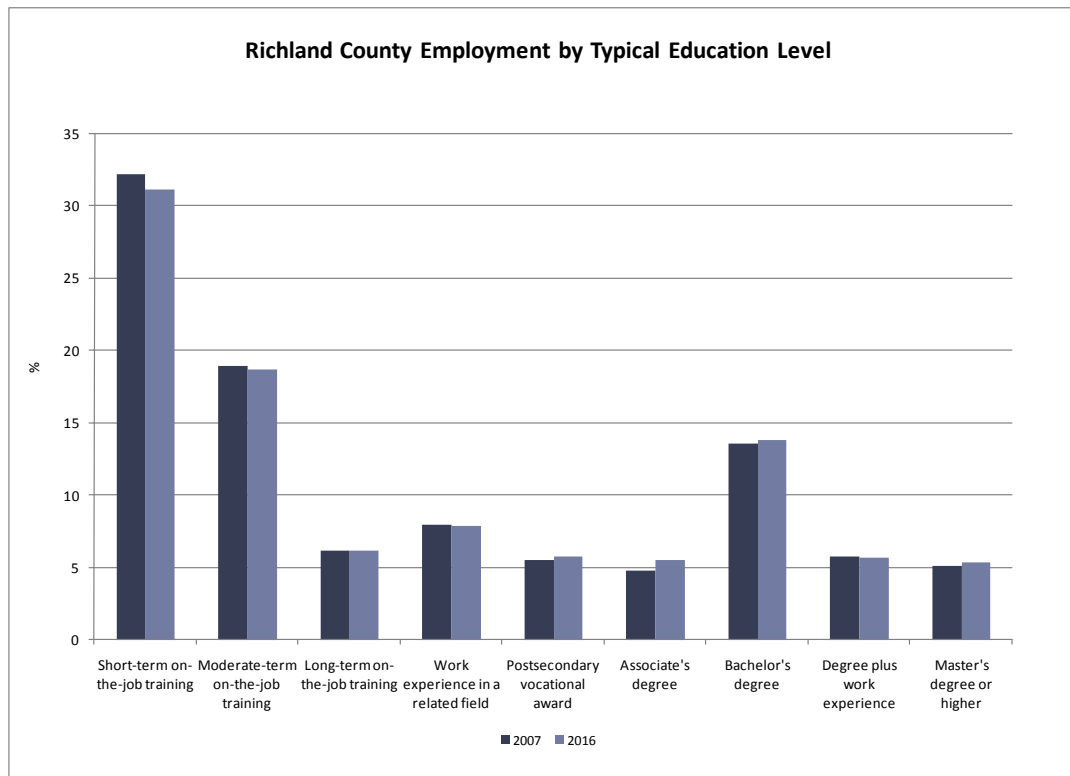
Occupation	2007-2016 Richland County Projected Growth (%)	2007-2016 SC Projected Growth (%)
Management occupations	13	17
Business and financial operations occupations	13	22
Computer and mathematical science occupations	18	23
Architecture and engineering occupations	11	15
Life, physical and social science occupations	10	15
Community and social services occupations	7	15
Legal occupations	18	21
Education, training and library occupations	12	16
Arts, design, entertainment, sports and media occupations	12	17
Healthcare practitioners and technical occupations	29	24
Healthcare support occupations	31	25
Protective service occupations	18	18
Food preparation and serving related occupations	12	13
Building and grounds cleaning and maintenance occupations	16	23
Personal care and service occupations	2	7
Sales and related occupations	10	19
Office and administrative support occupations	7	13
Farming, fishing and forestry occupations	4	16
Construction and extraction occupations	12	19
Installation, maintenance and repair occupations	12	17
Production occupations	9	10
Transportation and material moving occupations	4	11

Source: Economic Modeling Specialists, Inc.

Occupational Education Requirements

The trend for occupational growth shows that there will be growth in jobs across skill levels. However, based on employment projections, more of Richland County's job growth will be in these categories of education and experience:

- Postsecondary vocational award
- Associate's degree
- Bachelor's degree
- Master's degree or higher



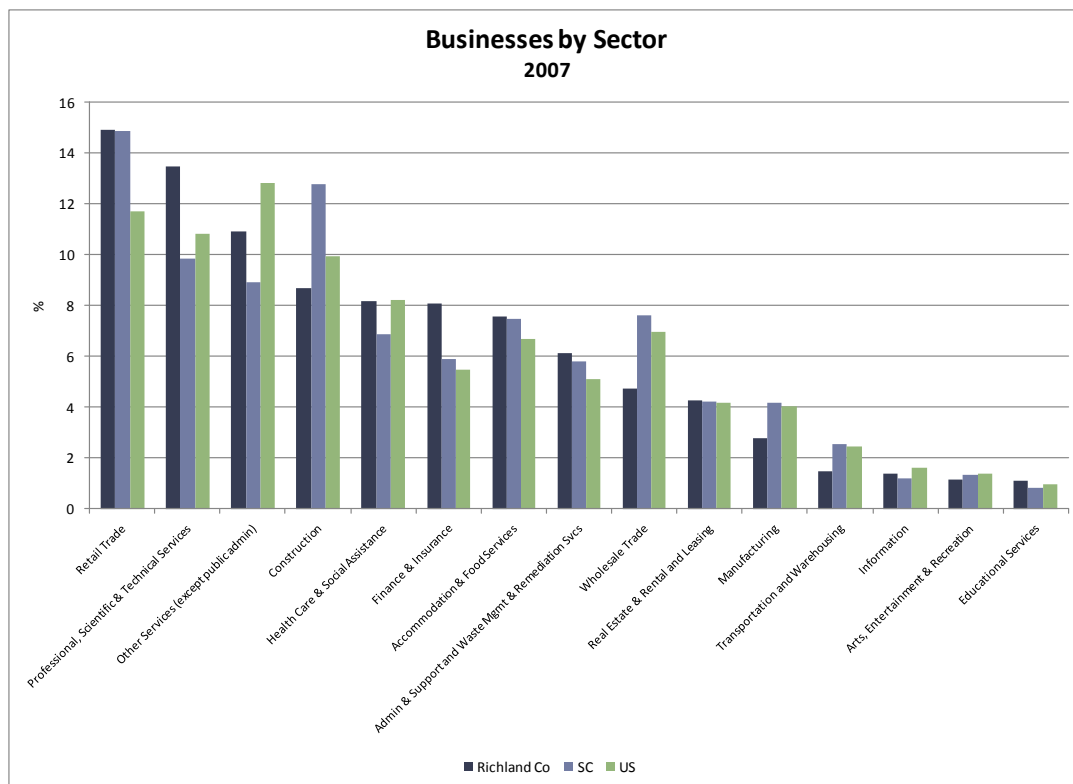
Source: Economic Modeling Specialists, Inc

INDUSTRY

Businesses by Sector

Richland County had higher percentages of businesses than South Carolina or the nation in the following sectors:

- Retail trade
- Professional, scientific and technical services
- Finance and insurance
- Accommodation and food services
- Administration and support and waste management and remediation services
- Real estate and rental and leasing
- Educational services



Source: U.S. Department of Labor, Bureau of Labor Statistics.

Growth in Number of Businesses

The number of private businesses in Richland County fell by 9% from 2002 to 2007, compared to a 2% drop for the state. For industry definitions, this analysis uses the North American Industry Classification System (NAICS), the U.S. standard for industry classification.

At the three-digit NAICS code level, Richland County had higher growth in eight industries compared to South Carolina and the U.S. Below is a list of those eight industries along with their respective growth rates.

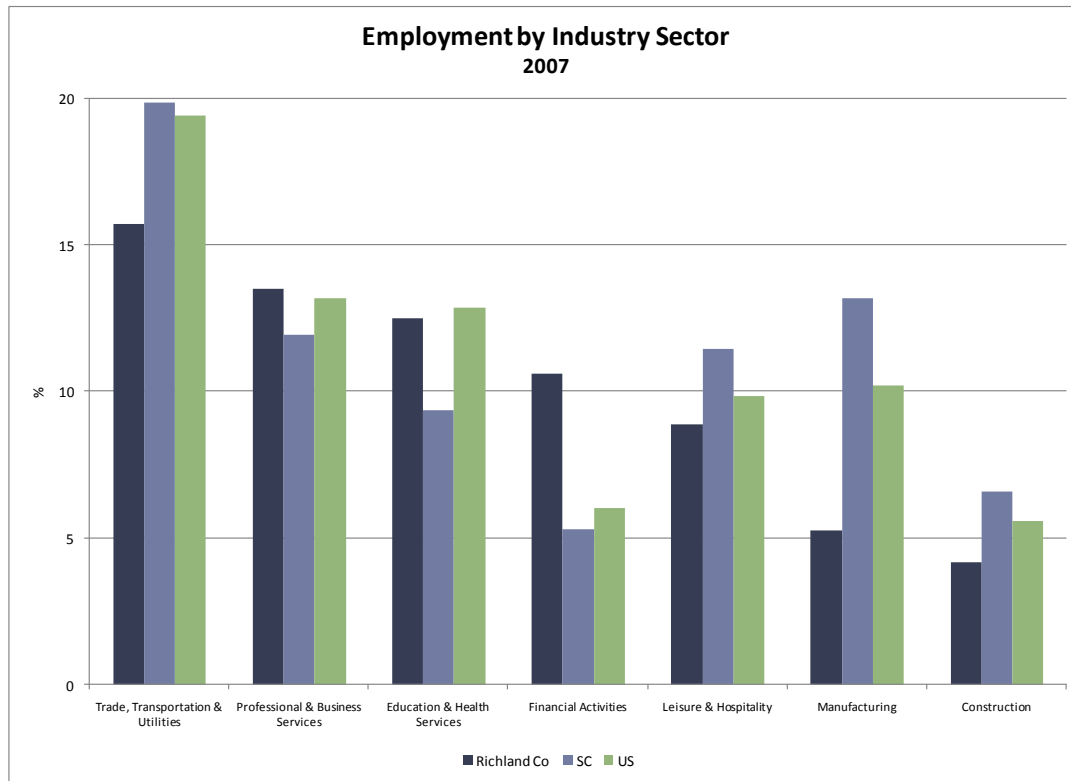
See **Appendix B** for information on all industries.

Industry	2002-2007 Growth (%)		
	Richland Co.	SC	US
Nonmetallic mineral product manufacturing	26.7	4.0	3.0
Computer and electronic product manufacturing	22.2	-6.3	-11.2
Gasoline stations	1.6	-2.8	-1.9
General merchandise stores	33.9	17.5	13.3
Broadcasting (except Internet)	8.3	-18.9	-2.0
Waste management and remediation services	64.7	3.9	15.6
Accommodation	25.7	-3.4	3.5
Religious, grantmaking, civic, professional and similar organizations	4.9	-2.0	3.3

Source: U.S. Department of Labor, Bureau of Labor Statistics.

Employment by Sector

Compared to the state and nation, Richland County has a higher share of jobs in professional and business services and financial activities.



Source: U.S. Department of Labor, Bureau of Labor Statistics.

Industry Analysis

Screening Criteria

Industry sectors were rated on six factors:

- | | |
|------------------------------------|---------------------------------|
| • 2002-2007 employment growth | Competitive effect ¹ |
| • 2002-2007 employment growth rate | Average annual wage |
| • Location quotient ² | Projected growth |

Using those factors, sectors were awarded “stars” based on meeting the following criteria:

- 2002-2007 employment growth of 100 or more (Did the sector add a significant number of jobs?)
- 2002-2007 employment growth rate greater than 5.8% (growth rate for all jobs in the county) (Did the sector add jobs?)
- Location quotient of at least 1.25 (Does the sector have a significant concentration in the county?)
- Competitive effect greater than 0 (Did the sector add jobs beyond national growth overall and in the sector?)
- Average annual wage greater than \$38,230 (2007 average for the county) (Does the sector pay wages greater than average for the county?)
- Average or above average projected growth (Is the sector expected to add jobs?)

Industries of Note

Based on these criteria, there are no “six star” sectors in Richland County.

Professional, scientific and technical services is a “five star” sector, with only a location quotient below 1.25.

Industry sectors that generate wealth from outside the area are referred to as the region’s base economy. Base economy sectors are important to an area’s economic well-being. Professional, scientific and technical services is considered to be a base economy sector.

Other sectors which fit this base economy criteria, have above-average wages, have a high concentration in the area (as indicated by the location quotient), and are projected to grow are:

- Paper manufacturing
- Telecommunications

Appendix C has information on all factors for all sectors for Richland County.

¹ *Competitive Effect: based on shift-share analysis; represents the change in employment in the sector in the county after accounting for overall US employment growth and growth/decline in the sector in the US.*

² *Location Quotient: percentage of employment in the sector in the county divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in the county compared to the US; based on 2007 data.*

MOVING FORWARD

The South Carolina Department of Commerce appreciates the opportunity to provide this base analysis of Richland County's labor market. We hope that it will help in advancing the progress of Richland County's economic development.

What's been done so far?

This analysis identifies the region's assets—both current and future—at a macro level. Labor Market Information (LMI) at the S.C. Department of Commerce developed a Base Labor Analysis report providing an overview of the region's population, industries, occupations, and educational assets. Additionally, these findings were benchmarked against the state and the nation.

What's next?

Because local knowledge is required to interpret and apply the findings appropriately, the Richland Base Labor Analysis should be used with local stakeholders to identify and define key, targeted industry clusters. Some items to consider when defining these clusters may include the following.

1. *What is Richland's economic base?*

In order for an economy to grow, it must have a base (export) sector that generates wealth from beyond its borders. Industries in the economic base (manufacturing, scientific and technology services, warehouse and distribution, financial services, regional healthcare, etc.) typically provide occupations with higher pay and benefits as well as better human capital development and promotion opportunities. A successful economic base stimulates the development of the non-base sector (housing, schools, retail, restaurants, personal services, etc.). It also propels the local tax base which, in turn, provides support to community services.

2. *What are strategies to assist low-wage citizens in non-base economy jobs?*

Although the economic base is the driver for long-term growth in a region, implementable strategies for developing job opportunities for low-skilled individuals is a priority for community economic well-being. This need must also be kept in mind when defining target industry clusters.

3. *What other factors are vital to Richland and its community?*

Over and above pure economic considerations, what is important to the citizens of the Richland community? How does Richland want to be perceived? What quality of life issues affect Richland? These questions may impact the types of industries desired for the area.

How Labor Market Information at the S.C. Department of Commerce can help.

Once local stakeholders have identified key industry clusters vital to the future economic development of the region, LMI can provide more in-depth analysis of each of these industries, their occupations, business establishments, and educational requirements.

1. Detailed Industry Analysis

For each identified industry, LMI can develop a detailed analysis of each sector, including employment, projected growth, staffing patterns, location quotients, and employers. Additionally, the analysis will examine the largest, fastest growing, and declining sectors within the industry cluster.

2. Detailed Occupational Analysis

At this point, the occupations—classified by SOC codes—that make up each of the identified industry clusters can be analyzed in detail. This analysis will include employment, average earnings, educational requirements, projected growth, and completers from available local training programs. It will culminate in identifying gaps between the number of occupations required to sustain and advance industry growth and the number of skilled workers (as identified by educational requirements and program completers) available to fulfill these positions.

3. Identification of Implementable Recommendations

LMI will utilize the findings of the analyses to develop a set of implementable recommendations. These may include recommendations to align community college programs with economic development goals along with others. Finally, local knowledge will once again be called upon to review the findings and develop an action plan for the implementation of feasible solutions.

Appendix A: Occupational Projections for Richland County

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
11-2011	Advertising and promotions managers	103	110	7	7	1.19	21.49	Degree plus work experience
11-2021	Marketing managers	316	380	64	20	0.97	33.09	Degree plus work experience
11-2022	Sales managers	618	705	87	14	1.10	35.92	Degree plus work experience
11-2031	Public relations managers	347	417	70	20	4.17	27.54	Degree plus work experience
11-3011	Administrative services managers	712	791	79	11	1.84	25.70	Degree plus work experience
11-3021	Computer and information systems managers	722	840	118	16	1.64	40.61	Degree plus work experience
11-3031	Financial managers	1,146	1,300	154	13	1.09	36.86	Degree plus work experience
11-3041	Compensation and benefits managers	167	207	40	24	2.03	29.77	Degree plus work experience
11-3042	Training and development managers	113	140	27	24	2.20	31.99	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
11-3049	Human resources managers, all other	136	164	28	21	1.41	29.96	Degree plus work experience
11-3051	Industrial production managers	193	233	40	21	0.78	41.23	Work experience in a related field
11-3061	Purchasing managers	138	171	33	24	1.29	30.36	Degree plus work experience
11-3071	Transportation, storage, and distribution managers	133	156	23	17	0.83	30.44	Work experience in a related field
11-9011	Farm, ranch, and other agricultural managers	68	68	0	0	0.13	5.89	Degree plus work experience
11-9012	Farmers and ranchers	346	346	0	0	0.13	5.86	Long-term on-the-job training
11-9021	Construction managers	829	1,015	186	22	0.71	32.76	Bachelor's degree
11-9031	Education administrators, preschool and child care center/program	162	160	-2	-1	0.79	9.33	Degree plus work experience
11-9032	Education administrators, elementary and secondary school	426	453	27	6	0.91	34.22	Degree plus work experience
11-9033	Education administrators, postsecondary	285	306	21	7	0.97	23.07	Degree plus work experience
11-9039	Education administrators, all other	226	238	12	5	1.47	24.54	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
11-9041	Engineering managers	230	266	36	16	0.77	44.71	Degree plus work experience
11-9051	Food service managers	498	610	112	22	0.71	24.10	Work experience in a related field
11-9061	Funeral directors	14	10	-4	-29	0.32	36.62	Associate's degree
11-9081	Lodging managers	113	134	21	19	0.50	28.82	Work experience in a related field
11-9111	Medical and health services managers	623	769	146	23	1.31	35.33	Degree plus work experience
11-9121	Natural sciences managers	38	40	2	5	0.61	40.65	Degree plus work experience
11-9131	Postmasters and mail superintendents	30	32	2	7	0.83	30.28	Work experience in a related field
11-9141	Property, real estate, and community association managers	1,397	1,827	430	31	0.77	13.55	Bachelor's degree
11-9151	Social and community service managers	291	314	23	8	1.23	18.03	Bachelor's degree
11-9199	Managers, all other	1,302	1,394	92	7	0.52	53.18	Work experience in a related field
11-1011	Chief executives	1,531	1,671	140	9	0.88	62.15	Degree plus work experience
11-1021	General and operations managers	3,972	4,150	178	4	1.38	37.07	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
11-1031	Legislators	214	226	12	6	2.19	8.52	Degree plus work experience
13-1011	Agents and business managers of artists, performers, and athletes	28	33	5	18	0.45	8.23	Degree plus work experience
13-1021	Purchasing agents and buyers, farm products	22	25	3	14	0.92	38.16	Work experience in a related field
13-1022	Wholesale and retail buyers, except farm products	169	186	17	10	0.63	25.41	Work experience in a related field
13-1023	Purchasing agents, except wholesale, retail, and farm products	476	520	44	9	1.04	20.86	Work experience in a related field
13-1031	Claims adjusters, examiners, and investigators	1,722	1,884	162	9	3.55	24.72	Long-term on-the-job training
13-1032	Insurance appraisers, auto damage	55	56	1	2	1.25	23.54	Long-term on-the-job training
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation	591	617	26	4	1.64	19.45	Long-term on-the-job training
13-1051	Cost estimators	229	282	53	23	0.61	24.36	Work experience in a related field
13-1061	Emergency management specialists	44	48	4	9	2.18	19.16	Work experience in a related field
13-1071	Employment, recruitment, and placement specialists	417	450	33	8	1.30	18.49	Bachelor's degree
13-1072	Compensation, benefits, and job analysis specialists	197	232	35	18	1.06	21.68	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
13-1073	Training and development specialists	617	717	100	16	1.81	23.04	Bachelor's degree
13-1079	Human resources, training, and labor relations specialists, all other	219	262	43	20	0.61	25.24	Bachelor's degree
13-1081	Logisticians	111	137	26	23	0.86	26.08	Bachelor's degree
13-1111	Management analysts	2,012	2,265	253	13	1.27	28.17	Degree plus work experience
13-1121	Meeting and convention planners	106	123	17	16	0.77	16.07	Bachelor's degree
13-1199	Business operation specialists, all other	1,778	2,092	314	18	1.08	25.10	Bachelor's degree
13-2011	Accountants and auditors	3,060	3,624	564	18	1.25	23.15	Bachelor's degree
13-2021	Appraisers and assessors of real estate	461	603	142	31	0.70	14.29	Postsecondary vocational award
13-2031	Budget analysts	93	100	7	8	0.97	26.74	Bachelor's degree
13-2041	Credit analysts	115	102	-13	-11	1.08	24.96	Bachelor's degree
13-2051	Financial analysts	273	355	82	30	0.51	21.08	Bachelor's degree
13-2052	Personal financial advisors	635	813	178	28	0.57	19.04	Bachelor's degree
13-2053	Insurance underwriters	348	359	11	3	2.03	24.03	Bachelor's degree
13-2061	Financial examiners	47	48	1	2	1.19	37.33	Bachelor's degree
13-2071	Loan counselors	181	152	-29	-16	2.20	22.39	Bachelor's degree
13-2072	Loan officers	620	537	-83	-13	1.02	30.13	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
13-2081	Tax examiners, collectors, and revenue agents	74	74	0	0	0.62	26.15	Bachelor's degree
13-2082	Tax preparers	97	96	-1	-1	0.53	17.03	Moderate-term on-the-job training
13-2099	Financial specialists, all other	243	245	2	1	1.03	24.38	Bachelor's degree
15-1011	Computer and information scientists, research	49	57	8	16	0.49	40.06	Doctoral degree
15-1021	Computer programmers	1,134	1,108	-26	-2	1.49	29.86	Bachelor's degree
15-1031	Computer software engineers, applications	483	654	171	35	0.57	37.47	Bachelor's degree
15-1032	Computer software engineers, systems software	838	1040	202	24	1.39	36.86	Bachelor's degree
15-1041	Computer support specialists	1,070	1,196	126	12	1.20	19.82	Associate's degree
15-1051	Computer systems analysts	1,194	1,496	302	25	1.51	27.34	Bachelor's degree
15-1061	Database administrators	165	201	36	22	0.87	28.50	Bachelor's degree
15-1071	Network and computer systems administrators	461	562	101	22	0.93	25.38	Bachelor's degree
15-1081	Network systems and data communications analysts	555	766	211	38	1.24	29.59	Bachelor's degree
15-1099	Computer specialists, all other	263	300	37	14	0.75	31.86	Associate's degree
15-2011	Actuaries	40	45	5	13	1.33	40.67	Degree plus work experience
15-2031	Operations research analysts	365	389	24	7	3.80	29.27	Master's degree
15-2041	Statisticians	80	86	6	8	2.44	23.07	Master's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
17-1011	Architects, except landscape and naval	109	106	-3	-3	0.46	40.94	Bachelor's degree
17-1012	Landscape architects	41	34	-7	-17	0.38	46.64	Bachelor's degree
17-1021	Cartographers and photogrammetrists	67	76	9	13	2.64	23.12	Bachelor's degree
17-1022	Surveyors	180	195	15	8	1.84	20.84	Bachelor's degree
17-2041	Chemical engineers	47	60	13	28	1.00	61.86	Bachelor's degree
17-2051	Civil engineers	808	856	48	6	1.79	28.17	Bachelor's degree
17-2061	Computer hardware engineers	14	17	3	21	0.11	38.69	Bachelor's degree
17-2071	Electrical engineers	328	370	42	13	1.34	38.49	Bachelor's degree
17-2072	Electronics engineers, except computer	85	85	0	0	0.38	37.87	Bachelor's degree
17-2081	Environmental engineers	226	251	25	11	2.66	24.72	Bachelor's degree
17-2111	Health and safety engineers, except mining safety engineers and inspectors	29	33	4	14	0.71	27.10	Bachelor's degree
17-2112	Industrial engineers	303	445	142	47	0.95	33.42	Bachelor's degree
17-2131	Materials engineers	28	33	5	18	0.82	32.79	Bachelor's degree
17-2141	Mechanical engineers	277	306	29	10	0.78	32.81	Bachelor's degree
17-2161	Nuclear engineers	46	52	6	13	1.07	52.89	Bachelor's degree
17-2199	Engineers, all other	118	127	9	8	0.44	30.06	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
17-3011	Architectural and civil drafters	167	160	-7	-4	0.91	22.26	Postsecondary vocational award
17-3012	Electrical and electronics drafters	56	63	7	13	0.91	27.13	Postsecondary vocational award
17-3013	Mechanical drafters	79	85	6	8	0.64	23.51	Postsecondary vocational award
17-3022	Civil engineering technicians	217	219	2	1	1.55	17.40	Associate's degree
17-3023	Electrical and electronic engineering technicians	314	338	24	8	1.16	25.89	Associate's degree
17-3026	Industrial engineering technicians	177	219	42	24	1.52	21.88	Associate's degree
17-3027	Mechanical engineering technicians	85	93	8	9	1.14	19.76	Associate's degree
17-3029	Engineering technicians, except drafters, all other	80	87	7	9	0.64	25.66	Associate's degree
17-3031	Surveying and mapping technicians	180	188	8	4	1.36	17.86	Moderate-term on-the-job training
19-1013	Soil and plant Scientists	11	12	1	9	0.53	25.94	Bachelor's degree
19-1021	Biochemists and biophysicists	10	11	1	10	0.32	35.60	Doctoral degree
19-1022	Microbiologists	11	12	1	9	0.43	25.96	Doctoral degree
19-1023	Zoologists and wildlife biologists	40	40	0	0	1.33	22.31	Bachelor's degree
19-1029	Biological scientists, all other	37	40	3	8	0.90	23.69	Bachelor's degree
19-1031	Conservation scientists	35	35	0	0	0.96	26.01	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
19-1032	Foresters	86	90	4	5	3.38	25.99	Bachelor's degree
19-1042	Medical scientists, except epidemiologists	34	40	6	18	0.26	28.77	Doctoral degree
19-2012	Physicists	25	27	2	8	1.00	42.90	Doctoral degree
19-2021	Atmospheric and space scientists	11	12	1	9	0.80	29.81	Bachelor's degree
19-2031	Chemists	120	134	14	12	0.91	27.60	Bachelor's degree
19-2041	Environmental scientists and specialists, including health	103	107	4	4	0.69	22.54	Master's degree
19-2042	Geoscientists, except hydrologists and geographers	141	157	16	11	2.02	17.11	Master's degree
19-2043	Hydrologists	89	98	9	10	2.57	22.98	Master's degree
19-2099	Physical scientists, all other	25	25	0	0	0.48	36.08	Bachelor's degree
19-3011	Economists	60	63	3	5	2.31	27.56	Master's degree
19-3021	Market research analysts	177	198	21	12	0.42	23.54	Bachelor's degree
19-3022	Survey researchers	82	87	5	6	0.76	14.97	Bachelor's degree
19-3031	Clinical, counseling, and school psychologists	181	198	17	9	0.65	25.44	Doctoral degree
19-3032	Industrial-organizational psychologists	64	76	12	19	0.54	23.93	Master's degree
19-3039	Psychologists, all other	70	82	12	17	0.54	24.69	Master's degree
19-3051	Urban and regional planners	25	28	3	12	0.48	21.50	Master's degree
19-3099	Social scientists and related workers, all other	24	24	0	0	0.45	37.94	Master's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
19-4011	Agricultural and food science technicians	19	20	1	5	0.52	14.34	Associate's degree
19-4021	Biological technicians	44	50	6	14	0.37	16.37	Associate's degree
19-4031	Chemical technicians	94	110	16	17	0.98	24.80	Associate's degree
19-4051	Nuclear technicians	81	104	23	28	6.99	26.16	Associate's degree
19-4091	Environmental science and protection technicians, including health	95	103	8	8	1.63	18.61	Associate's degree
19-4092	Forensic science technicians	11	14	3	27	0.55	21.41	Associate's degree
19-4093	Forest and conservation technicians	40	41	1	3	0.77	18.89	Associate's degree
19-4099	Life, physical, and social science technicians, all other	54	58	4	7	0.55	20.27	Associate's degree
21-1011	Substance abuse and behavioral disorder counselors	53	61	8	15	0.36	14.67	Master's degree
21-1012	Educational, vocational, and school counselors	575	632	57	10	1.41	20.12	Master's degree
21-1013	Marriage and family therapists	82	84	2	2	1.39	16.07	Master's degree
21-1014	Mental health counselors	131	149	18	14	0.74	15.88	Master's degree
21-1015	Rehabilitation counselors	320	343	23	7	1.38	17.24	Master's degree
21-1019	Counselors, all other	65	69	4	6	1.03	15.83	Master's degree
21-1021	Child, family, and school social workers	1,439	1,456	17	1	3.06	14.22	Bachelor's degree
21-1022	Medical and public health social workers	316	399	83	26	1.53	19.80	Bachelor's degree
21-1023	Mental health and substance abuse social workers	138	159	21	15	0.66	13.90	Master's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
21-1029	Social workers, all other	307	331	24	8	2.60	19.20	Bachelor's degree
21-1091	Health educators	221	258	37	17	2.20	18.84	Master's degree
21-1092	Probation officers and correctional treatment specialists	151	164	13	9	1.05	14.99	Bachelor's degree
21-1093	Social and human service assistants	662	695	33	5	1.18	12.26	Moderate-term on-the-job training
21-1099	Community and social service specialists, all other	296	319	23	8	1.51	13.80	Bachelor's degree
21-2011	Clergy	577	612	35	6	1.49	9.38	Master's degree
21-2021	Directors, religious activities and education	191	202	11	6	1.31	7.89	Bachelor's degree
21-2099	Religious workers, all other	86	91	5	6	1.33	6.67	Bachelor's degree
23-1011	Lawyers	1,843	2,137	294	16	1.37	49.93	First professional degree
23-1021	Administrative law judges, adjudicators, and hearing officers	48	48	0	0	2.11	24.99	Degree plus work experience
23-1022	Arbitrators, mediators, and conciliators	85	96	11	13	6.41	16.23	Degree plus work experience
23-1023	Judges, magistrate judges, and magistrates	112	114	2	2	2.79	24.82	Degree plus work experience
23-2011	Paralegals and legal assistants	1,151	1,508	357	31	2.97	18.63	Associate's degree
23-2091	Court reporters	52	52	0	0	1.00	19.66	Postsecondary vocational award

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23-2092	Law clerks	275	292	17	6	3.57	23.65	Bachelor's degree
23-2093	Title examiners, abstractors, and searchers	159	166	7	4	1.24	18.35	Moderate-term on-the-job training
23-2099	Legal support workers, all other	98	99	1	1	1.08	24.42	Bachelor's degree
25-1099	Postsecondary teachers	4,307	5,148	841	20	1.77	49.37	Doctoral degree
25-2011	Preschool teachers, except special education	408	399	-9	-2	0.51	8.53	Postsecondary vocational award
25-2012	Kindergarten teachers, except special education	136	158	22	16	0.46	22.01	Bachelor's degree
25-2021	Elementary school teachers, except special education	1,994	2,253	259	13	0.77	23.91	Bachelor's degree
25-2022	Middle school teachers, except special and vocational education	758	836	78	10	0.67	25.82	Bachelor's degree
25-2023	Vocational education teachers, middle school	44	36	-8	-18	0.64	26.98	Degree plus work experience
25-2031	Secondary school teachers, except special and vocational education	1,558	1,663	105	7	0.91	26.64	Bachelor's degree
25-2032	Vocational education teachers, secondary school	67	63	-4	-6	0.39	22.86	Degree plus work experience
25-2041	Special education teachers, preschool, kindergarten, and elementary school	140	164	24	17	0.39	26.84	Bachelor's degree
25-2042	Special education teachers, middle school	65	74	9	14	0.39	25.34	Bachelor's degree
25-2043	Special education teachers, secondary school	91	98	7	8	0.40	26.56	Bachelor's degree
25-3011	Adult literacy, remedial education, and GED teachers and instructors	179	194	15	8	0.77	27.30	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
25-3021	Self-enrichment education teachers	292	332	40	14	0.70	13.29	Work experience in a related field
25-3099	Teachers and instructors, all other	2,072	2,253	181	9	1.95	22.78	Bachelor's degree
25-4011	Archivists	70	82	12	17	6.83	15.41	Master's degree
25-4012	Curators	49	63	14	29	2.89	18.06	Master's degree
25-4013	Museum Technicians and Conservators	12	14	2	17	0.69	19.73	Master's degree
25-4021	Librarians	309	320	11	4	1.22	20.90	Master's degree
25-4031	Library technicians	181	194	13	7	0.95	11.73	Postsecondary vocational award
25-9011	Audio-visual collections specialists	31	29	-2	-6	0.96	12.82	Moderate-term on-the-job training
25-9021	Farm and home management advisors	59	59	0	0	1.38	21.86	Bachelor's degree
25-9031	Instructional coordinators	342	402	60	18	1.55	29.43	Master's degree
25-9041	Teacher assistants	1,506	1,604	98	7	0.68	9.68	Short-term on-the-job training
25-9099	Education, training, and library workers, all other	101	106	5	5	0.61	14.54	Bachelor's degree
27-1011	Art directors	99	113	14	14	0.49	12.14	Degree plus work experience
27-1012	Craft artists	79	92	13	16	0.52	6.97	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
27-1013	Fine artists, including painters, sculptors, and illustrators	88	101	13	15	0.53	8.64	Long-term on-the-job training
27-1014	Multi-media artists and animators	140	176	36	26	0.73	10.90	Bachelor's degree
27-1019	Artists and related workers, all other	91	104	13	14	0.57	7.74	Long-term on-the-job training
27-1021	Commercial and industrial designers	65	84	19	29	0.56	16.75	Bachelor's degree
27-1022	Fashion designers	36	43	7	19	0.41	24.02	Associate's degree
27-1023	Floral designers	92	87	-5	-5	0.58	14.88	Moderate-term on-the-job training
27-1024	Graphic designers	365	419	54	15	0.95	17.45	Bachelor's degree
27-1025	Interior designers	99	128	29	29	0.67	20.07	Associate's degree
27-1026	Merchandise displayers and window trimmers	118	139	21	18	0.73	15.67	Moderate-term on-the-job training
27-1027	Set and exhibit designers	39	46	7	18	0.52	23.08	Bachelor's degree
27-1029	Designers, all other	40	47	7	18	0.50	22.85	Bachelor's degree
27-2011	Actors	73	95	22	30	0.45	10.23	Long-term on-the-job training
27-2012	Producers and directors	112	136	24	21	0.58	12.36	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
27-2021	Athletes and sports competitors	26	31	5	19	0.41	10.35	Long-term on-the-job training
27-2022	Coaches and scouts	303	345	42	14	1.00	19.58	Long-term on-the-job training
27-2023	Umpires, referees, and other sports officials	26	28	2	8	0.39	7.77	Long-term on-the-job training
27-2031	Dancers	14	16	2	14	0.36	10.43	Long-term on-the-job training
27-2032	Choreographers	44	51	7	16	1.13	18.50	Work experience in a related field
27-2041	Music directors and composers	170	194	24	14	0.67	6.20	Degree plus work experience
27-2042	Musicians and singers	329	422	93	28	0.93	8.59	Long-term on-the-job training
27-2099	Entertainers and performers, sports and related workers, all other	67	72	5	7	0.33	7.34	Long-term on-the-job training
27-3011	Radio and television announcers	111	128	17	15	1.27	13.07	Long-term on-the-job training
27-3012	Public address system and other announcers	19	23	4	21	0.54	10.02	Long-term on-the-job training
27-3021	Broadcast news analysts	32	36	4	13	1.15	20.09	Degree plus work experience

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27-3022	Reporters and correspondents	82	77	-5	-6	0.81	20.44	Degree plus work experience
27-3031	Public relations specialists	572	640	68	12	1.37	20.58	Bachelor's degree
27-3041	Editors	148	152	4	3	0.62	19.22	Bachelor's degree
27-3042	Technical writers	45	52	7	16	0.49	19.66	Bachelor's degree
27-3043	Writers and authors	355	398	43	12	0.58	6.74	Bachelor's degree
27-3091	Interpreters and translators	140	139	-1	-1	0.63	21.98	Long-term on-the-job training
27-3099	Media and communication workers, all other	105	96	-9	-9	0.50	20.25	Long-term on-the-job training
27-4011	Audio and video equipment technicians	34	43	9	26	0.44	14.94	Long-term on-the-job training
27-4012	Broadcast technicians	95	114	19	20	1.55	14.10	Associate's degree
27-4014	Sound engineering technicians	23	29	6	26	0.72	13.37	Postsecondary vocational award
27-4021	Photographers	605	545	-60	-10	0.52	16.68	Long-term on-the-job training
27-4031	Camera operators, television, video, and motion picture	50	64	14	28	1.09	16.38	Moderate-term on-the-job training
27-4032	Film and video editors	13	17	4	31	0.34	14.10	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
27-4099	Media and communication equipment workers, all other	83	93	10	12	2.23	14.05	Moderate-term on-the-job training
29-1011	Chiropractors	45	48	3	7	0.50	31.13	First professional degree
29-1021	Dentists, general	99	110	11	11	0.64	58.32	First professional degree
29-1022	Oral and maxillofacial surgeons	14	17	3	21	0.55	79.56	First professional degree
29-1023	Orthodontists	17	20	3	18	0.69	73.20	First professional degree
29-1024	Prosthodontists	11	14	3	27	0.67	80.82	First professional degree
29-1029	Dentists, all other specialists	14	17	3	21	0.60	75.26	First professional degree
29-1031	Dietitians and nutritionists	165	191	26	16	1.49	24.72	Bachelor's degree
29-1041	Optometrists	48	52	4	8	0.65	33.88	First professional degree
29-1051	Pharmacists	488	675	187	38	1.26	49.40	First professional degree
29-1069	Physicians and surgeons	1,574	1,819	245	16	1.21	104.13	First professional degree
29-1071	Physician assistants	71	93	22	31	0.69	41.87	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
29-1081	Podiatrists	42	46	4	10	0.73	35.86	First professional degree
29-1111	Registered nurses	5,632	7,702	2,070	37	1.45	27.06	Associate's degree
29-1121	Audiologists	31	37	6	19	1.12	32.40	First professional degree
29-1122	Occupational therapists	168	226	58	35	1.03	32.43	Master's degree
29-1123	Physical therapists	312	437	125	40	1.03	34.61	Master's degree
29-1124	Radiation therapists	22	32	10	45	0.97	39.37	Associate's degree
29-1125	Recreational therapists	91	94	3	3	2.34	13.44	Bachelor's degree
29-1126	Respiratory therapists	294	430	136	46	1.87	21.80	Associate's degree
29-1127	Speech-language pathologists	173	203	30	17	0.85	24.52	Master's degree
29-1129	Therapists, all other	48	56	8	17	0.55	22.09	Bachelor's degree
29-1131	Veterinarians	75	86	11	15	0.70	44.62	First professional degree
29-1199	Health diagnosing and treating practitioners, all other	184	217	33	18	1.19	25.39	Bachelor's degree
29-2011	Medical and clinical laboratory technologists	689	831	142	21	2.66	20.25	Bachelor's degree
29-2012	Medical and clinical laboratory technicians	511	621	110	22	2.17	13.39	Associate's degree
29-2021	Dental hygienists	263	341	78	30	0.98	20.90	Associate's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
29-2031	Cardiovascular technologists and technicians	242	353	111	46	3.38	18.95	Associate's degree
29-2032	Diagnostic medical sonographers	109	147	38	35	1.51	27.32	Associate's degree
29-2033	Nuclear medicine technologists	70	93	23	33	2.19	28.50	Associate's degree
29-2034	Radiologic technologists and technicians	435	570	135	31	1.43	21.02	Associate's degree
29-2041	Emergency medical technicians and paramedics	271	387	116	43	0.86	17.96	Postsecondary vocational award
29-2051	Dietetic technicians	72	94	22	31	1.84	15.38	Moderate-term on-the-job training
29-2052	Pharmacy technicians	662	947	285	43	1.47	11.69	Moderate-term on-the-job training
29-2053	Psychiatric technicians	41	42	1	2	0.44	15.44	Moderate-term on-the-job training
29-2054	Respiratory therapy technicians	37	46	9	24	1.24	16.21	Associate's degree
29-2055	Surgical technologists	345	508	163	47	2.59	16.29	Postsecondary vocational award
29-2056	Veterinary technologists and technicians	100	125	25	25	0.88	10.04	Associate's degree
29-2061	Licensed practical and licensed vocational nurses	1,530	1,769	239	16	1.32	18.72	Postsecondary vocational award
29-2071	Medical records and health information technicians	598	753	155	26	2.26	16.97	Associate's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
29-2081	Opticians, dispensing	150	159	9	6	1.17	14.29	Long-term on-the-job training
29-2091	Orthotists and prosthetists	36	39	3	8	1.77	42.40	Bachelor's degree
29-2099	Healthcare technologists and technicians, all other	110	138	28	25	0.86	19.91	Postsecondary vocational award
29-9011	Occupational health and safety specialists	304	334	30	10	4.38	18.40	Bachelor's degree
29-9012	Occupational health and safety technicians	25	29	4	16	1.44	20.89	Postsecondary vocational award
29-9091	Athletic trainers	38	46	8	21	1.42	25.22	Bachelor's degree
29-9099	Healthcare practitioners and technical workers, all other	21	25	4	19	0.25	18.12	Postsecondary vocational award
31-1011	Home health aides	1,070	1,549	479	45	0.80	8.82	Short-term on-the-job training
31-1012	Nursing aides, orderlies, and attendants	2,372	3,063	691	29	1.02	10.74	Postsecondary vocational award
31-1013	Psychiatric aides	90	102	12	13	0.45	15.74	Short-term on-the-job training
31-2011	Occupational therapist assistants	26	36	10	38	0.68	24.60	Associate's degree
31-2012	Occupational therapist aides	22	28	6	27	1.72	9.07	Short-term on-the-job training
31-2021	Physical therapist assistants	80	117	37	46	0.85	22.38	Associate's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
31-2022	Physical therapist aides	73	100	27	37	1.01	10.03	Short-term on-the-job training
31-9011	Massage therapists	76	47	-29	-38	0.50	10.00	Postsecondary vocational award
31-9091	Dental assistants	406	522	116	29	0.92	13.61	Moderate-term on-the-job training
31-9092	Medical assistants	800	1,079	279	35	1.19	14.01	Moderate-term on-the-job training
31-9093	Medical equipment preparers	108	138	30	28	1.28	16.21	Short-term on-the-job training
31-9094	Medical transcriptionists	140	173	33	24	0.91	15.69	Postsecondary vocational award
31-9095	Pharmacy aides	51	54	3	6	0.55	14.30	Short-term on-the-job training
31-9096	Veterinary assistants and laboratory animal caretakers	89	94	5	6	0.68	12.13	Short-term on-the-job training
31-9099	Healthcare support workers, all other	321	391	70	22	1.02	15.21	Short-term on-the-job training
33-1011	First-line supervisors/managers of correctional officers	48	54	6	13	0.81	27.32	Work experience in a related field
33-1012	First-line supervisors/managers of police and detectives	73	78	5	7	0.51	21.20	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
33-1021	First-line supervisors/managers of fire fighting and prevention workers	22	25	3	14	0.27	19.15	Work experience in a related field
33-1099	First-line supervisors/managers, protective service workers, all other	83	95	12	14	1.04	17.26	Work experience in a related field
33-2011	Fire fighters	180	208	28	16	0.40	15.80	Long-term on-the-job training
33-2021	Fire inspectors and investigators	25	27	2	8	1.16	16.70	Work experience in a related field
33-3011	Bailiffs	43	47	4	9	1.52	11.34	Moderate-term on-the-job training
33-3012	Correctional officers and jailers	1,789	2,094	305	17	2.70	13.12	Moderate-term on-the-job training
33-3021	Detectives and criminal investigators	162	187	25	15	1.00	24.12	Work experience in a related field
33-3041	Parking enforcement workers	16	19	3	19	1.00	11.05	Short-term on-the-job training
33-3051	Police and sheriff's patrol officers	1,219	1,342	123	10	1.20	16.72	Long-term on-the-job training
33-9011	Animal control workers	21	24	3	14	0.90	15.73	Moderate-term on-the-job training
33-9021	Private detectives and investigators	89	106	17	19	0.86	19.51	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
33-9031	Gaming surveillance officers and gaming investigators	12	13	1	8	0.45	27.81	Moderate-term on-the-job training
33-9032	Security guards	2,296	2,867	571	25	1.41	9.37	Short-term on-the-job training
33-9091	Crossing guards	44	47	3	7	0.42	7.82	Short-term on-the-job training
33-9092	Lifeguards, ski patrol, and other recreational protective service workers	124	140	16	13	0.66	7.41	Short-term on-the-job training
33-9099	Protective service workers, all other	92	103	11	12	0.70	9.63	Short-term on-the-job training
35-1011	Chefs and head cooks	178	197	19	11	0.87	16.51	Work experience in a related field
35-1012	First-line supervisors/managers of food preparation and serving workers	1,264	1,428	164	13	0.93	15.17	Work experience in a related field
35-2011	Cooks, fast food	1,191	1,313	122	10	1.20	7.52	Short-term on-the-job training
35-2012	Cooks, institution and cafeteria	941	1,100	159	17	1.45	9.58	Moderate-term on-the-job training
35-2013	Cooks, private household	11	14	3	27	0.57	28.71	Long-term on-the-job training
35-2014	Cooks, restaurant	1,568	1,686	118	8	1.17	9.17	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
35-2015	Cooks, short order	553	572	19	3	1.73	8.05	Short-term on-the-job training
35-2019	Cooks, all other	14	18	4	29	0.39	25.34	Moderate-term on-the-job training
35-2021	Food preparation workers	1,558	1,854	296	19	1.09	8.44	Short-term on-the-job training
35-3011	Bartenders	485	494	9	2	0.59	7.26	Short-term on-the-job training
35-3021	Combined food preparation and serving workers, including fast food	2,527	3,026	499	20	0.64	6.89	Short-term on-the-job training
35-3022	Counter attendants, cafeteria, food concession, and coffee shop	780	886	106	14	0.92	6.92	Short-term on-the-job training
35-3031	Waiters and waitresses	4,134	4,423	289	7	1.11	6.60	Short-term on-the-job training
35-3041	Food servers, nonrestaurant	128	162	34	27	0.44	8.35	Short-term on-the-job training
35-9011	Dining room and cafeteria attendants and bartender helpers	904	990	86	10	1.38	9.57	Short-term on-the-job training
35-9021	Dishwashers	607	658	51	8	0.75	7.12	Short-term on-the-job training
35-9031	Hosts and hostesses, restaurant, lounge, and coffee shop	573	612	39	7	1.03	7.31	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
37-1011	First-line supervisors/managers of housekeeping and janitorial workers	545	632	87	16	0.91	12.78	Work experience in a related field
37-1012	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	217	257	40	18	0.91	14.35	Work experience in a related field
37-2011	Janitors and cleaners, except maids and housekeeping cleaners	4,408	5,121	713	16	1.21	8.26	Short-term on-the-job training
37-2012	Maids and housekeeping cleaners	1,817	2,065	248	14	0.63	7.60	Short-term on-the-job training
37-2019	Building cleaning workers, all other	413	514	101	24	0.53	11.34	Short-term on-the-job training
37-2021	Pest control workers	147	169	22	15	0.98	12.13	Moderate-term on-the-job training
37-3011	Landscaping and groundskeeping workers	1,029	1,193	164	16	0.62	9.34	Short-term on-the-job training
37-3012	Pesticide handlers, sprayers, and applicators, vegetation	120	146	26	22	0.73	8.61	Moderate-term on-the-job training
37-3013	Tree trimmers and pruners	92	112	20	22	0.56	8.07	Short-term on-the-job training
37-3019	Grounds maintenance workers, all other	158	187	29	18	1.01	8.89	Short-term on-the-job training
39-1011	Gaming supervisors	16	16	0	0	0.23	7.69	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
39-1012	Slot key persons	16	15	-1	-6	0.30	7.61	Postsecondary vocational award
39-1021	First-line supervisors/managers of personal service workers	281	251	-30	-11	0.73	10.32	Work experience in a related field
39-2011	Animal trainers	50	37	-13	-26	0.33	7.82	Moderate-term on-the-job training
39-2021	Nonfarm animal caretakers	357	284	-73	-20	0.61	7.24	Short-term on-the-job training
39-3011	Gaming dealers	15	19	4	27	0.11	7.05	Postsecondary vocational award
39-3012	Gaming and sports book writers and runners	52	59	7	13	1.57	6.40	Short-term on-the-job training
39-3021	Motion picture projectionists	13	12	-1	-8	0.74	7.59	Short-term on-the-job training
39-3031	Ushers, lobby attendants, and ticket takers	251	297	46	18	1.53	5.91	Short-term on-the-job training
39-3091	Amusement and recreation attendants	271	289	18	7	0.71	6.99	Short-term on-the-job training
39-3093	Locker room, coatroom, and dressing room attendants	14	15	1	7	0.41	8.81	Short-term on-the-job training
39-3099	Entertainment attendants and related workers, all other	16	18	2	13	0.25	9.01	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
39-4021	Funeral attendants	54	57	3	6	1.07	8.94	Short-term on-the-job training
39-5011	Barbers	51	16	-35	-69	0.66	7.53	Postsecondary vocational award
39-5012	Hairdressers, hairstylists, and cosmetologists	714	573	-141	-20	0.80	9.76	Postsecondary vocational award
39-5092	Manicurists and pedicurists	36	31	-5	-14	0.37	9.06	Postsecondary vocational award
39-5094	Skin care specialists	28	23	-5	-18	0.49	10.30	Postsecondary vocational award
39-6011	Baggage porters and bellhops	10	10	0	0	--	--	Short-term on-the-job training
39-6012	Concierges	17	19	2	12	0.56	9.90	Moderate-term on-the-job training
39-6021	Tour guides and escorts	38	45	7	18	0.58	9.35	Moderate-term on-the-job training
39-9011	Child care workers	1,597	1,545	-52	-3	0.62	7.15	Short-term on-the-job training
39-9021	Personal and home care aides	795	1,149	354	45	0.59	11.13	Short-term on-the-job training
39-9031	Fitness trainers and aerobics instructors	332	366	34	10	0.80	15.91	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
39-9032	Recreation workers	385	417	32	8	0.70	8.23	Short-term on-the-job training
39-9041	Residential advisors	97	99	2	2	1.15	10.27	Moderate-term on-the-job training
39-9099	Personal care and service workers, all other	97	54	-43	-44	0.52	8.07	Short-term on-the-job training
41-1011	First-line supervisors/managers of retail sales workers	2,703	2,839	136	5	0.77	20.08	Work experience in a related field
41-1012	First-line supervisors/managers of non-retail sales workers	1,098	1,177	79	7	0.75	40.52	Work experience in a related field
41-2011	Cashiers, except gaming	5,688	5,880	192	3	1.02	7.63	Short-term on-the-job training
41-2012	Gaming change persons and booth cashiers	56	60	4	7	0.56	31.18	Short-term on-the-job training
41-2021	Counter and rental clerks	667	811	144	22	0.88	10.20	Short-term on-the-job training
41-2022	Parts salespersons	439	433	-6	-1	1.17	16.52	Moderate-term on-the-job training
41-2031	Retail salespersons	6,840	7,523	683	10	0.87	10.51	Short-term on-the-job training
41-3011	Advertising sales agents	391	438	47	12	1.11	19.80	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
41-3021	Insurance sales agents	1,543	1,549	6	0	1.34	24.25	Bachelor's degree
41-3031	Securities, commodities, and financial services sales agents	565	629	64	11	0.53	24.76	Bachelor's degree
41-3041	Travel agents	81	68	-13	-16	0.45	21.11	Postsecondary vocational award
41-3099	Sales representatives, services, all other	619	681	62	10	0.55	23.96	Moderate-term on-the-job training
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products	590	690	100	17	0.71	51.10	Moderate-term on-the-job training
41-4012	Sales representatives, wholesale and manufacturing, except technical and scientific products	1,953	2,161	208	11	0.76	31.60	Moderate-term on-the-job training
41-9011	Demonstrators and product promoters	158	178	20	13	0.80	12.48	Moderate-term on-the-job training
41-9012	Models	32	32	0	0	0.51	6.91	Moderate-term on-the-job training
41-9021	Real estate brokers	2,040	2,691	651	32	0.77	12.73	Work experience in a related field
41-9022	Real estate sales agents	2,396	3,078	682	28	0.84	12.15	Postsecondary vocational award
41-9031	Sales engineers	79	79	0	0	0.65	34.09	Bachelor's degree
41-9041	Telemarketers	472	342	-130	-28	0.73	10.25	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
41-9091	Door-to-door sales workers, news and street vendors, and related workers	754	772	18	2	0.43	6.03	Short-term on-the-job training
41-9099	Sales and related workers, all other	443	460	17	4	0.79	14.79	Moderate-term on-the-job training
43-1011	First-line supervisors/managers of office and administrative support workers	4,356	4,484	128	3	1.81	20.53	Work experience in a related field
43-2011	Switchboard operators, including answering service	447	403	-44	-10	1.57	11.08	Short-term on-the-job training
43-2021	Telephone operators	106	55	-51	-48	2.22	13.75	Short-term on-the-job training
43-2099	Communications equipment operators, all other	12	12	0	0	1.64	14.38	Short-term on-the-job training
43-3011	Bill and account collectors	1,150	1,401	251	22	1.66	14.57	Short-term on-the-job training
43-3021	Billing and posting clerks and machine operators	1,311	1,444	133	10	1.53	14.20	Moderate-term on-the-job training
43-3031	Bookkeeping, accounting, and auditing clerks	3,809	4,338	529	14	1.07	15.25	Moderate-term on-the-job training
43-3041	Gaming cage workers	16	17	1	6	0.54	11.99	Short-term on-the-job training
43-3051	Payroll and timekeeping clerks	371	411	40	11	1.10	15.42	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
43-3061	Procurement clerks	286	304	18	6	2.38	15.25	Short-term on-the-job training
43-3071	Tellers	1,084	1,101	17	2	1.11	14.62	Short-term on-the-job training
43-4011	Brokerage clerks	45	35	-10	-22	0.37	18.61	Moderate-term on-the-job training
43-4021	Correspondence clerks	100	111	11	11	3.51	13.26	Short-term on-the-job training
43-4031	Court, municipal, and license clerks	132	137	5	4	0.77	14.36	Short-term on-the-job training
43-4041	Credit authorizers, checkers, and clerks	144	113	-31	-22	1.33	15.12	Short-term on-the-job training
43-4051	Customer service representatives	6,087	7,095	1,008	17	1.71	15.60	Moderate-term on-the-job training
43-4061	Eligibility interviewers, government programs	34	34	0	0	0.20	17.93	Moderate-term on-the-job training
43-4071	File clerks	755	497	-258	-34	1.99	10.65	Short-term on-the-job training
43-4081	Hotel, motel, and resort desk clerks	426	467	41	10	1.22	8.87	Short-term on-the-job training
43-4111	Interviewers, except eligibility and loan	635	761	126	20	1.67	11.93	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
43-4121	Library assistants, clerical	219	234	15	7	1.23	10.13	Short-term on-the-job training
43-4131	Loan interviewers and clerks	430	340	-90	-21	1.04	20.59	Short-term on-the-job training
43-4141	New accounts clerks	303	231	-72	-24	2.32	15.61	Work experience in a related field
43-4151	Order clerks	281	212	-69	-25	0.66	13.34	Short-term on-the-job training
43-4161	Human resources assistants, except payroll and timekeeping	578	664	86	15	2.20	15.93	Short-term on-the-job training
43-4171	Receptionists and information clerks	1,656	1,909	253	15	0.89	11.88	Short-term on-the-job training
43-4181	Reservation and transportation ticket agents and travel clerks	108	112	4	4	0.41	14.28	Short-term on-the-job training
43-4199	Information and record clerks, all other	421	375	-46	-11	1.13	16.81	Short-term on-the-job training
43-5011	Cargo and freight agents	30	31	1	3	0.22	24.01	Moderate-term on-the-job training
43-5021	Couriers and messengers	349	395	46	13	0.71	8.05	Short-term on-the-job training
43-5031	Police, fire, and ambulance dispatchers	84	96	12	14	0.53	13.25	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
43-5032	Dispatchers, except police, fire, and ambulance	269	290	21	8	0.89	13.68	Moderate-term on-the-job training
43-5041	Meter readers, utilities	166	164	-2	-1	2.28	13.07	Short-term on-the-job training
43-5051	Postal service clerks	107	116	9	8	0.87	22.90	Short-term on-the-job training
43-5052	Postal service mail carriers	574	620	46	8	1.09	22.35	Short-term on-the-job training
43-5053	Postal service mail sorters, processors, and processing machine operators	436	432	-4	-1	1.38	22.38	Short-term on-the-job training
43-5061	Production, planning, and expediting clerks	366	430	64	17	0.79	19.78	Short-term on-the-job training
43-5071	Shipping, receiving, and traffic clerks	1,357	1,468	111	8	1.12	11.78	Short-term on-the-job training
43-5081	Stock clerks and order fillers	3,877	3,776	-101	-3	1.41	9.92	Short-term on-the-job training
43-5111	Weighers, measurers, checkers, and samplers, recordkeeping	46	45	-1	-2	0.37	13.10	Short-term on-the-job training
43-6011	Executive secretaries and administrative assistants	2,816	3,135	319	11	1.05	17.31	Moderate-term on-the-job training
43-6012	Legal secretaries	809	974	165	20	1.40	18.83	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
43-6013	Medical secretaries	861	1,061	200	23	1.11	13.99	Postsecondary vocational award
43-6014	Secretaries, except legal, medical, and executive	4,576	4,613	37	1	1.43	13.44	Moderate-term on-the-job training
43-9011	Computer operators	307	246	-61	-20	1.47	16.50	Moderate-term on-the-job training
43-9021	Data entry keyers	943	872	-71	-8	1.69	16.39	Moderate-term on-the-job training
43-9022	Word processors and typists	143	125	-18	-13	0.46	14.25	Moderate-term on-the-job training
43-9031	Desktop publishers	40	43	3	8	0.52	20.66	Postsecondary vocational award
43-9041	Insurance claims and policy processing clerks	715	701	-14	-2	1.71	22.54	Moderate-term on-the-job training
43-9051	Mail clerks and mail machine operators, except postal service	335	290	-45	-13	1.32	13.20	Short-term on-the-job training
43-9061	Office clerks, general	7,502	8,218	716	10	1.45	11.91	Short-term on-the-job training
43-9071	Office machine operators, except computer	55	52	-3	-5	0.37	14.53	Short-term on-the-job training
43-9081	Proofreaders and copy markers	61	65	4	7	1.84	14.09	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
43-9111	Statistical assistants	76	80	4	5	2.34	15.63	Moderate-term on-the-job training
43-9199	Office and administrative support workers, all other	290	266	-24	-8	0.58	16.70	Short-term on-the-job training
45-1099	Supervisors, farming, fishing, and forestry workers	24	24	0	0	0.36	21.21	Work experience in a related field
45-2011	Agricultural inspectors	11	12	1	9	0.42	17.89	Work experience in a related field
45-2041	Graders and sorters, agricultural products	13	14	1	8	0.14	10.98	Work experience in a related field
45-2092	Farmworkers and laborers, crop, nursery, and greenhouse	34	40	6	18	0.07	11.10	Short-term on-the-job training
45-2093	Farmworkers, farm and ranch animals	11	13	2	18	0.12	8.41	Short-term on-the-job training
45-2099	Agricultural workers, all other	16	18	2	13	0.72	12.97	Short-term on-the-job training
45-3011	Fishers and related fishing workers	18	17	-1	-6	0.11	6.01	Moderate-term on-the-job training
45-4011	Forest and conservation workers	23	25	2	9	1.38	12.77	Moderate-term on-the-job training
47-1011	First-line supervisors/managers of construction trades and extraction workers	1,320	1,520	200	15	0.77	25.52	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
47-2011	Boilermakers	10	13	3	30	--	--	Long-term on-the-job training
47-2021	Brickmasons and blockmasons	285	312	27	9	1.14	15.23	Long-term on-the-job training
47-2022	Stonemasons	29	31	2	7	0.33	33.17	Long-term on-the-job training
47-2031	Carpenters	1,460	1,666	206	14	0.53	22.57	Long-term on-the-job training
47-2041	Carpet installers	35	41	6	17	0.34	25.60	Moderate-term on-the-job training
47-2042	Floor layers, except carpet, wood, and hard tiles	34	37	3	9	0.50	25.07	Moderate-term on-the-job training
47-2043	Floor sanders and finishers	22	23	1	5	0.39	31.78	Moderate-term on-the-job training
47-2044	Tile and marble setters	94	119	25	27	0.73	18.49	Long-term on-the-job training
47-2051	Cement masons and concrete finishers	189	210	21	11	0.51	14.70	Moderate-term on-the-job training
47-2061	Construction laborers	1,131	1,312	181	16	0.50	16.57	Moderate-term on-the-job training
47-2071	Paving, surfacing, and tamping equipment operators	82	97	15	18	0.78	13.68	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
47-2072	Pile-driver operators	18	20	2	11	0.36	33.25	Moderate-term on-the-job training
47-2073	Operating engineers and other construction equipment operators	574	673	99	17	0.84	15.29	Moderate-term on-the-job training
47-2081	Drywall and ceiling tile installers	459	454	-5	-1	1.60	14.57	Moderate-term on-the-job training
47-2082	Tapers	36	37	1	3	0.29	30.83	Moderate-term on-the-job training
47-2111	Electricians	793	750	-43	-5	0.67	19.62	Long-term on-the-job training
47-2121	Glaziers	65	72	7	11	0.69	16.25	Long-term on-the-job training
47-2131	Insulation workers, floor, ceiling, and wall	38	37	-1	-3	0.70	13.10	Moderate-term on-the-job training
47-2132	Insulation workers, mechanical	34	38	4	12	0.73	12.28	Moderate-term on-the-job training
47-2141	Painters, construction and maintenance	525	575	50	10	0.58	22.18	Moderate-term on-the-job training
47-2142	Paperhangers	13	13	0	0	0.46	29.55	Moderate-term on-the-job training
47-2151	Pipelayers	114	133	19	17	0.63	21.37	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
47-2152	Plumbers, pipefitters, and steamfitters	740	953	213	29	0.92	18.62	Long-term on-the-job training
47-2161	Plasterers and stucco masons	43	43	0	0	0.44	20.32	Long-term on-the-job training
47-2171	Reinforcing iron and rebar workers	30	37	7	23	0.61	15.52	Long-term on-the-job training
47-2181	Roofers	189	186	-3	-2	0.62	18.13	Moderate-term on-the-job training
47-2211	Sheet metal workers	202	236	34	17	0.65	17.32	Long-term on-the-job training
47-2221	Structural iron and steel workers	69	87	18	26	0.58	16.48	Long-term on-the-job training
47-3011	Helpers, brickmasons, blockmasons, stonemasons, and tile and marble setters	200	218	18	9	1.93	9.65	Short-term on-the-job training
47-3012	Helpers, carpenters	269	321	52	19	1.57	11.44	Short-term on-the-job training
47-3013	Helpers, electricians	245	201	-44	-18	1.46	11.23	Short-term on-the-job training
47-3014	Helpers, painters, paperhangers, plasterers, and stucco masons	36	34	-2	-6	0.89	10.40	Short-term on-the-job training
47-3015	Helpers, pipelayers, plumbers, pipefitters, and steamfitters	259	348	89	34	1.91	11.51	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
47-3016	Helpers, roofers	23	20	-3	-13	0.65	10.50	Short-term on-the-job training
47-3019	Helpers, construction trades, all other	99	111	12	12	1.68	10.23	Short-term on-the-job training
47-4011	Construction and building inspectors	229	247	18	8	1.12	25.74	Work experience in a related field
47-4021	Elevator installers and repairers	23	26	3	13	0.63	18.11	Long-term on-the-job training
47-4031	Fence erectors	18	21	3	17	0.33	20.91	Moderate-term on-the-job training
47-4041	Hazardous materials removal workers	106	104	-2	-2	1.68	14.95	Moderate-term on-the-job training
47-4051	Highway maintenance workers	30	32	2	7	0.14	15.49	Moderate-term on-the-job training
47-4071	Septic tank servicers and sewer pipe cleaners	50	55	5	10	1.21	16.92	Moderate-term on-the-job training
47-4099	Construction and related workers, all other	15	15	0	0	0.16	19.26	Moderate-term on-the-job training
47-5081	Helpers, extraction workers	13	14	1	8	0.29	12.51	Short-term on-the-job training
49-1011	First-line supervisors/managers of mechanics, installers, and repairers	1,017	1,101	84	8	1.37	24.20	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
49-2011	Computer, automated teller, and office machine repairers	356	349	-7	-2	1.19	18.77	Postsecondary vocational award
49-2021	Radio mechanics	13	13	0	0	0.79	22.40	Postsecondary vocational award
49-2022	Telecommunications equipment installers and repairers, except line installers	275	302	27	10	0.81	23.73	Long-term on-the-job training
49-2091	Avionics technicians	14	13	-1	-7	0.60	20.74	Postsecondary vocational award
49-2092	Electric motor, power tool, and related repairers	44	40	-4	-9	1.13	16.79	Postsecondary vocational award
49-2093	Electrical and electronics installers and repairers, transportation equipment	30	30	0	0	0.97	24.18	Postsecondary vocational award
49-2094	Electrical and electronics repairers, commercial and industrial equipment	182	205	23	13	1.46	23.13	Postsecondary vocational award
49-2095	Electrical and electronics repairers, powerhouse, substation, and relay	52	62	10	19	1.48	41.43	Postsecondary vocational award
49-2096	Electronic equipment installers and repairers, motor vehicles	38	41	3	8	1.18	20.04	Postsecondary vocational award
49-2097	Electronic home entertainment equipment installers and repairers	52	63	11	21	0.57	21.04	Postsecondary vocational award
49-2098	Security and fire alarm systems installers	51	63	12	24	0.51	19.65	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
49-3011	Aircraft mechanics and service technicians	94	91	-3	-3	0.47	24.87	Postsecondary vocational award
49-3021	Automotive body and related repairers	289	297	8	3	0.94	18.37	Long-term on-the-job training
49-3022	Automotive glass installers and repairers	32	33	1	3	0.89	20.04	Long-term on-the-job training
49-3023	Automotive service technicians and mechanics	1,105	1,200	95	9	0.83	18.53	Postsecondary vocational award
49-3031	Bus and truck mechanics and diesel engine specialists	348	392	44	13	0.78	19.46	Postsecondary vocational award
49-3042	Mobile heavy equipment mechanics, except engines	349	377	28	8	1.75	21.05	Postsecondary vocational award
49-3051	Motorboat mechanics	36	46	10	28	0.75	14.17	Long-term on-the-job training
49-3052	Motorcycle mechanics	24	32	8	33	0.54	12.49	Long-term on-the-job training
49-3053	Outdoor power equipment and other small engine mechanics	53	52	-1	-2	0.90	10.10	Moderate-term on-the-job training
49-3091	Bicycle repairers	12	14	2	17	0.76	16.79	Moderate-term on-the-job training
49-3092	Recreational vehicle service technicians	11	15	4	36	0.46	20.59	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
49-3093	Tire repairers and changers	182	238	56	31	1.10	11.22	Short-term on-the-job training
49-9011	Mechanical door repairers	19	21	2	11	0.80	18.98	Moderate-term on-the-job training
49-9012	Control and valve installers and repairers, except mechanical door	120	136	16	13	1.77	25.59	Moderate-term on-the-job training
49-9021	Heating, air conditioning, and refrigeration mechanics and installers	466	571	105	23	0.89	18.20	Long-term on-the-job training
49-9031	Home appliance repairers	95	94	-1	-1	0.71	13.36	Long-term on-the-job training
49-9041	Industrial machinery mechanics	377	472	95	25	0.91	23.57	Long-term on-the-job training
49-9042	Maintenance and repair workers, general	2,908	3,304	396	14	1.29	15.08	Moderate-term on-the-job training
49-9043	Maintenance workers, machinery	83	91	8	10	0.64	21.17	Short-term on-the-job training
49-9044	Millwrights	125	158	33	26	1.45	17.49	Long-term on-the-job training
49-9051	Electrical power-line installers and repairers	281	344	63	22	1.53	27.65	Long-term on-the-job training
49-9052	Telecommunications line installers and repairers	228	238	10	4	0.80	24.21	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
49-9061	Camera and photographic equipment repairers	11	12	1	9	0.55	9.81	Moderate-term on-the-job training
49-9062	Medical equipment repairers	50	61	11	22	0.77	12.24	Associate's degree
49-9063	Musical instrument repairers and tuners	10	10	0	0	--	--	Long-term on-the-job training
49-9064	Watch repairers	10	12	2	20	0.56	9.26	Long-term on-the-job training
49-9069	Precision instrument and equipment repairers, all other	29	31	2	7	0.84	15.25	Moderate-term on-the-job training
49-9091	Coin, vending, and amusement machine servicers and repairers	86	78	-8	-9	0.81	12.14	Moderate-term on-the-job training
49-9092	Commercial divers	20	25	5	25	0.49	14.29	Moderate-term on-the-job training
49-9093	Fabric menders, except garment	18	22	4	22	0.46	13.12	Moderate-term on-the-job training
49-9094	Locksmiths and safe repairers	72	90	18	25	1.15	20.52	Moderate-term on-the-job training
49-9095	Manufactured building and mobile home installers	13	16	3	23	0.64	17.37	Moderate-term on-the-job training
49-9096	Riggers	12	13	1	8	0.62	18.34	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
49-9097	Signal and track switch repairers	23	26	3	13	0.49	17.30	Moderate-term on-the-job training
49-9098	Helpers--Installation, maintenance, and repair workers	388	430	42	11	1.51	10.03	Short-term on-the-job training
49-9099	Installation, maintenance, and repair workers, all other	238	266	28	12	0.98	16.43	Moderate-term on-the-job training
51-1011	First-line supervisors/managers of production and operating workers	794	895	101	13	0.71	28.36	Work experience in a related field
51-2021	Coil winders, tapers, and finishers	38	41	3	8	1.05	21.99	Short-term on-the-job training
51-2022	Electrical and electronic equipment assemblers	257	263	6	2	0.76	16.33	Short-term on-the-job training
51-2023	Electromechanical equipment assemblers	29	35	6	21	0.31	18.69	Short-term on-the-job training
51-2031	Engine and other machine assemblers	131	121	-10	-8	1.87	13.97	Short-term on-the-job training
51-2041	Structural metal fabricators and fitters	102	108	6	6	0.63	16.62	Moderate-term on-the-job training
51-2091	Fiberglass laminators and fabricators	86	140	54	63	1.35	22.87	Moderate-term on-the-job training
51-2092	Team assemblers	2,075	2,305	230	11	1.04	12.68	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-2099	Assemblers and fabricators, all other	384	406	22	6	0.82	11.79	Moderate-term on-the-job training
51-3011	Bakers	95	122	27	28	0.40	14.82	Long-term on-the-job training
51-3021	Butchers and meat cutters	61	71	10	16	0.30	14.75	Long-term on-the-job training
51-3022	Meat, poultry, and fish cutters and trimmers	67	92	25	37	0.30	9.37	Short-term on-the-job training
51-3092	Food batchmakers	71	100	29	41	0.48	11.62	Short-term on-the-job training
51-3093	Food cooking machine operators and tenders	31	35	4	13	0.44	11.31	Short-term on-the-job training
51-4011	Computer-controlled machine tool operators, metal and plastic	66	83	17	26	0.30	14.16	Moderate-term on-the-job training
51-4012	Numerical tool and process control programmers	15	17	2	13	0.54	20.62	Long-term on-the-job training
51-4021	Extruding and drawing machine setters, operators, and tenders, metal and plastic	98	114	16	16	0.66	15.09	Moderate-term on-the-job training
51-4022	Forging machine setters, operators, and tenders, metal and plastic	38	33	-5	-13	0.77	15.66	Moderate-term on-the-job training
51-4023	Rolling machine setters, operators, and tenders, metal and plastic	20	20	0	0	0.37	15.81	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-4031	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	452	446	-6	-1	1.05	11.92	Moderate-term on-the-job training
51-4032	Drilling and boring machine tool setters, operators, and tenders, metal and plastic	62	62	0	0	0.93	18.30	Moderate-term on-the-job training
51-4033	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	30	33	3	10	0.19	13.43	Moderate-term on-the-job training
51-4034	Lathe and turning machine tool setters, operators, and tenders, metal and plastic	26	27	1	4	0.25	10.67	Moderate-term on-the-job training
51-4035	Milling and planing machine setters, operators, and tenders, metal and plastic	22	21	-1	-5	0.47	12.61	Moderate-term on-the-job training
51-4041	Machinists	380	439	59	16	0.62	15.96	Long-term on-the-job training
51-4071	Foundry mold and coremakers	19	22	3	16	0.83	16.22	Moderate-term on-the-job training
51-4072	Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	54	58	4	7	0.22	13.68	Moderate-term on-the-job training
51-4081	Multiple machine tool setters, operators, and tenders, metal and plastic	73	85	12	16	0.48	14.37	Moderate-term on-the-job training
51-4111	Tool and die makers	89	95	6	7	0.57	20.68	Long-term on-the-job training
51-4121	Welders, cutters, solderers, and brazers	440	502	62	14	0.69	17.62	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-4122	Welding, soldering, and brazing machine setters, operators, and tenders	49	56	7	14	0.43	27.88	Moderate-term on-the-job training
51-4191	Heat treating equipment setters, operators, and tenders, metal and plastic	20	21	1	5	0.46	11.75	Moderate-term on-the-job training
51-4193	Plating and coating machine setters, operators, and tenders, metal and plastic	41	44	3	7	0.63	14.06	Moderate-term on-the-job training
51-4194	Tool grinders, filers, and sharpeners	12	12	0	0	0.42	14.12	Moderate-term on-the-job training
51-4199	Metal workers and plastic workers, all other	26	23	-3	-12	0.34	15.26	Moderate-term on-the-job training
51-5011	Bindery workers	86	75	-11	-13	0.82	10.87	Short-term on-the-job training
51-5021	Job printers	96	90	-6	-6	1.18	13.29	Long-term on-the-job training
51-5022	Prepress technicians and workers	68	57	-11	-16	0.58	16.22	Postsecondary vocational award
51-5023	Printing machine operators	227	228	1	0	0.71	14.68	Moderate-term on-the-job training
51-6011	Laundry and dry-cleaning workers	561	588	27	5	1.31	8.96	Moderate-term on-the-job training
51-6021	Pressers, textile, garment, and related materials	191	178	-13	-7	1.54	8.90	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-6031	Sewing machine operators	200	203	3	2	0.51	13.58	Moderate-term on-the-job training
51-6041	Shoe and leather workers and repairers	13	15	2	15	0.35	6.93	Long-term on-the-job training
51-6051	Sewers, hand	61	74	13	21	0.54	8.33	Short-term on-the-job training
51-6052	Tailors, dressmakers, and custom sewers	65	79	14	22	0.44	8.57	Long-term on-the-job training
51-6062	Textile cutting machine setters, operators, and tenders	16	12	-4	-25	0.49	11.66	Moderate-term on-the-job training
51-6063	Textile knitting and weaving machine setters, operators, and tenders	72	32	-40	-56	1.12	15.94	Long-term on-the-job training
51-6064	Textile winding, twisting, and drawing out machine setters, operators, and tenders	76	36	-40	-53	1.06	14.52	Moderate-term on-the-job training
51-6091	Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers	28	29	1	4	0.99	19.26	Moderate-term on-the-job training
51-6093	Upholsterers	54	61	7	13	0.35	7.95	Long-term on-the-job training
51-6099	Textile, apparel, and furnishings workers, all other	36	29	-7	-19	0.98	16.61	Short-term on-the-job training
51-7011	Cabinetmakers and bench carpenters	132	133	1	1	0.57	12.76	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-7021	Furniture finishers	18	21	3	17	0.26	7.94	Long-term on-the-job training
51-7041	Sawing machine setters, operators, and tenders, wood	18	21	3	17	0.17	19.62	Moderate-term on-the-job training
51-7042	Woodworking machine setters, operators, and tenders, except sawing	23	24	1	4	0.14	12.03	Moderate-term on-the-job training
51-8013	Power plant operators	147	186	39	27	2.65	28.49	Long-term on-the-job training
51-8021	Stationary engineers and boiler operators	120	135	15	13	1.72	21.80	Long-term on-the-job training
51-8031	Water and liquid waste treatment plant and system operators	70	82	12	17	0.41	13.75	Long-term on-the-job training
51-8091	Chemical plant and system operators	134	173	39	29	1.58	26.67	Long-term on-the-job training
51-8092	Gas plant operators	17	17	0	0	0.85	27.20	Long-term on-the-job training
51-8093	Petroleum pump system operators, refinery operators, and gaugers	10	11	1	10	0.16	20.59	Long-term on-the-job training
51-9011	Chemical equipment operators and tenders	134	170	36	27	1.65	24.55	Moderate-term on-the-job training
51-9012	Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders	43	54	11	26	0.62	20.73	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-9021	Crushing, grinding, and polishing machine setters, operators, and tenders	38	41	3	8	0.58	12.82	Moderate-term on-the-job training
51-9022	Grinding and polishing workers, hand	14	16	2	14	0.20	11.62	Moderate-term on-the-job training
51-9023	Mixing and blending machine setters, operators, and tenders	99	124	25	25	0.44	16.58	Moderate-term on-the-job training
51-9031	Cutters and trimmers, hand	13	14	1	8	0.28	11.71	Short-term on-the-job training
51-9032	Cutting and slicing machine setters, operators, and tenders	325	359	34	10	2.62	9.90	Moderate-term on-the-job training
51-9041	Extruding, forming, pressing, and compacting machine setters, operators, and tenders	100	125	25	25	0.76	19.52	Moderate-term on-the-job training
51-9051	Furnace, kiln, oven, drier, and kettle operators and tenders	21	26	5	24	0.50	18.92	Moderate-term on-the-job training
51-9061	Inspectors, testers, sorters, samplers, and weighers	810	862	52	6	1.03	15.40	Moderate-term on-the-job training
51-9071	Jewelers and precious stone and metal workers	45	47	2	4	0.54	26.55	Postsecondary vocational award
51-9081	Dental laboratory technicians	23	26	3	13	0.31	19.67	Long-term on-the-job training
51-9082	Medical appliance technicians	14	17	3	21	0.75	18.33	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-9083	Ophthalmic laboratory technicians	19	21	2	11	0.39	16.12	Moderate-term on-the-job training
51-9111	Packaging and filling machine operators and tenders	656	724	68	10	1.07	13.28	Short-term on-the-job training
51-9121	Coating, painting, and spraying machine setters, operators, and tenders	112	116	4	4	0.66	15.75	Moderate-term on-the-job training
51-9122	Painters, transportation equipment	57	59	2	4	0.64	15.64	Long-term on-the-job training
51-9123	Painting, coating, and decorating workers	48	55	7	15	0.87	14.04	Short-term on-the-job training
51-9131	Photographic process workers	18	12	-6	-33	0.38	11.95	Moderate-term on-the-job training
51-9132	Photographic processing machine operators	75	47	-28	-37	0.84	8.84	Short-term on-the-job training
51-9141	Semiconductor processors	24	15	-9	-38	0.34	24.08	Associate's degree
51-9191	Cementing and gluing machine operators and tenders	16	18	2	13	0.42	11.88	Moderate-term on-the-job training
51-9194	Etchers and engravers	11	13	2	18	0.49	21.15	Long-term on-the-job training
51-9195	Molders, shapers, and casters, except metal and plastic	32	42	10	31	0.43	16.02	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-9196	Paper goods machine setters, operators, and tenders	340	376	36	11	1.89	16.04	Moderate-term on-the-job training
51-9198	Helpers--Production workers	575	626	51	9	0.67	9.56	Short-term on-the-job training
51-9199	Production workers, all other	107	112	5	5	0.23	14.41	Moderate-term on-the-job training
53-1021	First-line supervisors/managers of helpers, laborers, and material movers, hand	179	198	19	11	0.61	22.18	Work experience in a related field
53-1031	First-line supervisors/managers of transportation and material-moving machine and vehicle operators	239	262	23	10	0.66	23.09	Work experience in a related field
53-2011	Airline pilots, copilots, and flight engineers	27	25	-2	-7	0.20	46.09	Bachelor's degree
53-2012	Commercial pilots	22	22	0	0	0.36	26.83	Postsecondary vocational award
53-2021	Air traffic controllers	37	43	6	16	1.02	38.29	Long-term on-the-job training
53-3011	Ambulance drivers and attendants, except emergency medical technicians	204	268	64	31	6.10	11.13	Moderate-term on-the-job training
53-3021	Bus drivers, transit and intercity	124	119	-5	-4	0.38	10.67	Moderate-term on-the-job training
53-3022	Bus drivers, school	608	716	108	18	0.79	7.54	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
53-3031	Driver/sales workers	892	920	28	3	0.89	13.48	Short-term on-the-job training
53-3032	Truck drivers, heavy and tractor-trailer	1,571	1,751	180	11	0.52	17.51	Moderate-term on-the-job training
53-3033	Truck drivers, light or delivery services	1,468	1,638	170	12	0.78	14.97	Short-term on-the-job training
53-3041	Taxi drivers and chauffeurs	263	270	7	3	0.52	8.19	Short-term on-the-job training
53-3099	Motor vehicle operators, all other	87	94	7	8	0.75	16.33	Short-term on-the-job training
53-4019	Locomotive engineers and operators	29	28	-1	-3	0.47	24.62	Moderate-term on-the-job training
53-4021	Railroad brake, signal, and switch operators	13	10	-3	-23	0.39	22.34	Moderate-term on-the-job training
53-4031	Railroad conductors and yardmasters	19	19	0	0	0.39	25.89	Moderate-term on-the-job training
53-5011	Sailors and marine oilers	12	12	0	0	0.24	10.72	Short-term on-the-job training
53-6021	Parking lot attendants	53	59	6	11	0.24	10.76	Short-term on-the-job training
53-6031	Service station attendants	42	41	-1	-2	0.28	11.48	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
53-6051	Transportation inspectors	14	15	1	7	0.38	31.08	Work experience in a related field
53-6099	Transportation workers, all other	24	26	2	8	0.37	11.25	Short-term on-the-job training
53-7011	Conveyor operators and tenders	34	35	1	3	0.45	16.73	Short-term on-the-job training
53-7021	Crane and tower operators	55	63	8	15	0.74	15.56	Long-term on-the-job training
53-7032	Excavating and loading machine and dragline operators	62	70	8	13	0.51	15.99	Moderate-term on-the-job training
53-7051	Industrial truck and tractor operators	682	699	17	2	0.67	13.34	Short-term on-the-job training
53-7061	Cleaners of vehicles and equipment	530	494	-36	-7	0.93	9.27	Short-term on-the-job training
53-7062	Laborers and freight, stock, and material movers, hand	3,860	3,963	103	3	1.00	9.72	Short-term on-the-job training
53-7063	Machine feeders and offbearers	154	145	-9	-6	0.65	12.11	Short-term on-the-job training
53-7064	Packers and packagers, hand	1,072	1,034	-38	-4	0.80	8.07	Short-term on-the-job training
53-7072	Pump operators, except wellhead pumpers	10	15	5	50	0.20	13.18	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Experience Level
53-7081	Refuse and recyclable material collectors	329	229	-100	-30	1.41	16.25	Short-term on-the-job training
53-7121	Tank car, truck, and ship loaders	12	14	2	17	0.52	19.77	Moderate-term on-the-job training
53-7199	Material moving workers, all other	91	89	-2	-2	1.17	10.30	Moderate-term on-the-job training
		274,001	304,528	30,527	11		18.82	

at least 1.25 greater than \$18.82

Source: EMSI

Appendix B: Businesses by 3-Digit NAICS Codes

Richland County								
Industry	NAICS Code	Change						
		2002	2007	Average Size	#	%	SC % change	US % change
Crop Production	111	6	5	4	-1	-16.7	-17.6	-9.3
Animal Production	112	6	4	--	-2	-33.3	-19.2	5.0
Forestry and Logging	113	9	8	7	-1	-11.1	-26.0	-15.2
Support Activities for Agriculture and Forestry	115	13	8	23	-5	-38.5	-13.0	1.8
Mining (except Oil and Gas)	212	8	4	0	-4	-50.0	-14.3	-2.1
Construction of Buildings	236	266	256	10	-10	-3.8	-0.4	15.4
Heavy and Civil Engineering Construction	237	80	67	12	-13	-16.3	-2.0	-2.3
Specialty Trade Contractors	238	542	481	12	-61	-11.3	-6.4	12.9
Food Manufacturing	311	14	14	67	0	0.0	-13.3	-3.3
Textile Mills	313	10	5	62	-5	-50.0	-34.0	-26.7
Textile Product Mills	314	9	7	5	-2	-22.2	-10.6	-3.3
Apparel Manufacturing	315	8	2	--	-6	-75.0	-40.1	-33.0
Wood Product Manufacturing	321	9	8	26	-1	-11.1	-6.4	-5.7
Paper Manufacturing	322	9	7	170	-2	-22.2	12.2	-7.5
Printing and Related Support Activities	323	62	44	15	-18	-29.0	-15.0	-12.3
Chemical Manufacturing	325	12	10	152	-2	-16.7	-1.6	1.5
Plastics and Rubber Products Manufacturing	326	6	4	--	-2	-33.3	-5.6	-11.4
Nonmetallic Mineral Product Manufacturing	327	15	19	21	4	26.7	4.0	3.0
Fabricated Metal Product Manufacturing	332	51	41	42	-10	-19.6	-6.1	-3.0
Machinery Manufacturing	333	21	14	30	-7	-33.3	-23.7	-11.1
Computer and Electronic Product Manufacturing	334	9	11	86	2	22.2	-6.3	-11.2
Transportation Equipment Manufacturing	336	14	10	65	-4	-28.6	4.9	-1.1
Furniture and Related Product Manufacturing	337	22	17	9	-5	-22.7	-8.8	-5.8
Miscellaneous Manufacturing	339	32	34	18	2	6.3	9.5	-0.9
Merchant Wholesalers, Durable Goods	423	324	256	16	-68	-21.0	0.6	-5.6
Merchant Wholesalers, Nondurable Goods	424	121	98	23	-23	-19.0	-5.0	-3.5
Wholesale Electronic Markets and Agents and Brokers	425	105	86	11	-19	-18.1	31.7	38.3
Motor Vehicle and Parts Dealers	441	168	150	22	-18	-10.7	-11.6	2.2
Furniture and Home Furnishings Stores	442	98	93	14	-5	-5.1	-11.3	3.8
Electronics and Appliance Stores	443	122	92	13	-30	-24.6	-16.7	-4.7
Building Material and Garden Equipment and Supplies Dealers	444	106	86	23	-20	-18.9	-8.8	0.9
Food and Beverage Stores	445	156	131	25	-25	-16.0	-18.2	-0.5
Health and Personal Care Stores	446	131	144	10	13	9.9	9.1	10.2

Richland County								
Industry	NAICS Code	2002	2007	Average Size	Change		SC % change	US % change
					#	%		
Gasoline Stations	447	125	127	9	2	1.6	-2.8	-1.9
Clothing and Clothing Accessories Stores	448	218	223	10	5	2.3	-5.3	4.6
Sporting Goods, Hobby, Book, and Music Stores	451	84	76	14	-8	-9.5	-11.1	-6.5
General Merchandise Stores	452	62	83	53	21	33.9	17.5	13.3
Miscellaneous Store Retailers	453	194	150	8	-44	-22.7	-23.9	-8.6
Nonstore Retailers	454	40	31	6	-9	-22.5	-17.9	11.9
Truck Transportation	484	97	76	14	-21	-21.6	-5.1	5.4
Transit and Ground Passenger Transportation	485	9	7	5	-2	-22.2	-14.6	1.6
Scenic and Sightseeing Transportation	487	6	3	--	-3	-50.0	-16.5	-1.5
Support Activities for Transportation	488	26	23	6	-3	-11.5	-6.0	7.6
Couriers and Messengers	492	13	10	10	-3	-23.1	12.8	5.6
Warehousing and Storage	493	21	14	34	-7	-33.3	-13.8	14.5
Publishing Industries (except Internet)	511	30	30	31	0	0.0	1.4	-0.2
Motion Picture and Sound Recording Industries	512	23	16	16	-7	-30.4	-9.6	-2.1
Broadcasting (except Internet)	515	12	13	42	1	8.3	-18.9	-2.0
Telecommunications	517	59	51	39	-8	-13.6	0.0	9.3
Data Processing, Hosting and Related Services	518	24	13	--	-11	-45.8	-11.0	-47.5
Other Information Services	519	6	9	--	3	50.0	102.8	183.3
Credit Intermediation and Related Activities	522	326	311	18	-15	-4.6	12.2	23.8
Securities, Commodity Contracts, and Other Financial Investments and Related Activities	523	78	93	5	15	19.2	38.6	23.5
Insurance Carriers and Related Activities	524	389	338	40	-51	-13.1	0.3	6.7
Real Estate	531	345	324	7	-21	-6.1	18.8	23.8
Rental and Leasing Services	532	86	71	--	-15	-17.4	-8.3	1.7
Professional, Scientific, and Technical Services	541	1,325	1,250	8	-75	-5.7	2.1	14.3
Management of Companies and Enterprises	551	22	29	109	7	31.8	74.2	29.1
Administrative and Support Services	561	556	540	28	-16	-2.9	2.2	13.0
Waste Management and Remediation Services	562	17	28	20	11	64.7	3.9	15.6
Educational Services	611	112	104	26	-8	-7.1	14.1	23.7
Ambulatory Health Care Services	621	556	557	17	1	0.2	7.4	13.3
Nursing and Residential Care Facilities	623	53	46	59	-7	-13.2	0.4	8.8
Amusement, Gambling, and Recreation Industries	713	83	67	18	-16	-19.3	-14.4	12.9
Accommodation	721	70	88	20	18	25.7	-3.4	3.5
Food Services and Drinking Places	722	637	617	25	-20	-3.1	-0.2	12.2
Repair and Maintenance	811	319	236	7	-83	-26.0	-18.3	-0.4
Personal and Laundry Services	812	232	233	9	1	0.4	-2.4	7.2
Religious, Grantmaking, Civic, Professional, and Similar Organizations	813	185	194	10	9	4.9	-2.0	3.3

Richland County								
Industry	NAICS Code	2002	2007	Average Size	Change		SC % change	US % change
					#	%		
Private Households	814	472	351	--	-121	-25.6	4.6	24.9

growth rate exceeds both SC and US growth rates

Source: Bureau of Labor Statistics

Appendix C: Richland County Employment by Industry Sector

		Employment		2002-2007 Change				2007 Average Annual Wage (\$)	Projected Growth
Industry	NAICS code	2002	2007	#	%	Location Quotient	Competitive Effect		
Total		204,155	216,094	11,939	5.8			38,230	11%

<i>6 star sectors</i>		Employment		2002-2007 Change				2007 Average Annual Wage (\$)	Projected Growth
Industry	NAICS code	2002	2007	#	%	Location Quotient	Competitive Effect		
NONE									

<i>5 star sectors</i>		Employment		2002-2007 Change				2007 Average Annual Wage (\$)	Projected Growth
Industry	NAICS code	2002	2007	#	%	Location Quotient	Competitive Effect		
Professional, Scientific, and Technical Services	541	9,516	10,514	998	10	0.96	991	55,210	AA

<i>4 star sectors</i>		Employment		2002-2007 Change				2007 Average Annual Wage (\$)	Projected Growth
Industry	NAICS code	2002	2007	#	%	Location Quotient	Competitive Effect		
Construction of Buildings	236	2,289	2,544	255	11	1.00	-38	50,863	AA
Merchant Wholesalers, Durable Goods	423	3,283	4,058	775	24	0.91	111	53,221	BA
Merchant Wholesalers, Nondurable Goods	424	2,089	2,245	156	7	0.76	-90	44,823	AA
Furniture and Home Furnishings Stores	442	1,052	1,318	266	25	1.60	-152	30,353	A
Building Material and Garden Equipment and Supplies Dealers	444	1,583	2,018	435	27	1.07	404	28,635	A
Food and Beverage Stores	445	2,952	3,331	379	13	0.81	274	22,988	A
Truck Transportation	484	869	1,033	164	19	0.50	-27	38,630	A
Broadcasting (except Internet)	515	459	545	86	19	1.16	180	43,431	A

4 star sectors		Employment		2002-2007 Change					
Industry	NAICS code	2002	2007	#	%	Location Quotient	Competitive Effect	2007 Average Annual Wage (\$)	Projected Growth
Insurance Carriers and Related Activities	524	9,639	13,532	3,893	40	4.35	63	53,165	BA
Real Estate	531	2,000	2,267	267	13	1.05	-889	42,259	AA
Management of Companies and Enterprises	551	2,013	3,175	1,162	58	1.20	0	44,569	AA
Administrative and Support Services	561	13,584	14,953	1,369	10	1.29	0	20,646	AA
Ambulatory Health Care Services	621	8,201	9,539	1,338	16	1.21	0	49,413	AA

3 star or fewer sectors		Employment		2002-2007 Change					
Industry	NAICS code	2002	2007	#	%	Location Quotient	Competitive Effect	2007 Average Annual Wage (\$)	Projected Growth
Forestry and Logging	113	40	56	16	40	0.59	21	38,569	D
Specialty Trade Contractors	238	4,995	5,629	634	13	0.81	-99	36,784	A
Textile Mills	313	384	309	-75	-20	1.26	5	44,850	D
Wood Product Manufacturing	321	188	208	20	11	0.28	44	44,696	BA
Nonmetallic Mineral Product Manufacturing	327	353	402	49	14	0.56	-336	42,147	AA
Computer and Electronic Product Manufacturing	334	135	942	807	598	0.51	-72	50,024	BA
Wholesale Electronic Markets and Agents and Brokers	425	763	919	156	20	0.77	-120	73,906	BA
Electronics and Appliance Stores	443	1,298	1,186	-112	-9	1.51	265	33,599	A
Health and Personal Care Stores	446	1,025	1,369	344	34	0.96	-223	28,071	AA
Clothing and Clothing Accessories Stores	448	2,037	2,244	207	10	1.04	105	16,119	BA
General Merchandise Stores	452	4,082	4,374	292	7	1.01	8	17,319	BA
Support Activities for Transportation	488	116	148	32	28	0.18	41	41,616	BA
Securities, Commodity Contracts, and Other Financial Investments and Related Activities	523	842	487	-355	-42	0.39	3,679	117,297	AA
Educational Services	611	2,271	2,709	438	19	0.82	0	30,148	A
Food Services and Drinking Places	722	13,834	15,427	1,593	12	1.13	0	12,811	A
Support Activities for Agriculture and Forestry	115	208	183	-25	-12	0.38	-40	38,499	AA
Heavy and Civil Engineering Construction	237	1,326	830	-496	-37	0.58	-586	51,504	A
Paper Manufacturing	322	1,369	1,192	-177	-13	1.82	-136	59,141	BA

3 star or fewer sectors									
Industry	NAICS code	Employment		2002-2007 Change		Location Quotient	Competitive Effect	2007 Average Annual Wage (\$)	Projected Growth
		2002	2007	#	%				
Fabricated Metal Product Manufacturing	332	2,048	1,729	-319	-16	0.77	-300	45,233	A
Machinery Manufacturing	333	749	425	-324	-43	0.25	828	41,940	D
Miscellaneous Manufacturing	339	666	608	-58	-9	0.66	640	39,855	BA
Motor Vehicle and Parts Dealers	441	3,356	3,291	-65	-2	1.20	205	41,390	BA
Scenic and Sightseeing Transportation	487	50	0	-50	-100	ND	17	-	AA
Warehousing and Storage	493	529	473	-56	-11	0.50	84	35,032	A
Motion Picture and Sound Recording Industries	512	388	253	-135	-35	0.47	94	11,348	A
Telecommunications	517	2,048	1,981	-67	-3	1.34	-917	58,722	BA
Credit Intermediation and Related Activities	522	6,510	5,570	-940	-14	1.35	-427	48,840	BA
Personal and Laundry Services	812	1,802	2,033	231	13	1.08	0	19,636	D
Crop Production	111	19	19	0	0	0.02	1	20,632	
Food Manufacturing	311	1,112	934	-178	-16	0.44	-137	32,775	A
Apparel Manufacturing	315	153	0	-153	-100	ND	34	-	BA
Printing and Related Support Activities	323	914	667	-247	-27	0.74	173	38,212	D
Chemical Manufacturing	325	1,452	1,520	68	5	1.23	-199	71,026	BA
Plastics and Rubber Products Manufacturing	326	224	0	-224	-100	ND	61	-	BA
Transportation Equipment Manufacturing	336	772	652	-120	-16	0.27	-8	43,399	BA
Sporting Goods, Hobby, Book, and Music Stores	451	994	1,088	94	9	1.14	-7	15,977	BA
Nonstore Retailers	454	211	175	-36	-17	0.28	98	28,211	BA
Couriers and Messengers	492	57	99	42	74	0.12	-210	22,108	BA
Publishing Industries (except Internet)	511	916	942	26	3	0.73	-127	48,558	BA
Rental and Leasing Services	532	909	0	-909	-100	ND	-398	-	A
Waste Management and Remediation Services	562	809	569	-240	-30	1.12	0	46,729	BA
Nursing and Residential Care Facilities	623	3,173	2,724	-449	-14	0.64	0	23,059	AA
Repair and Maintenance	811	1,992	1,699	-293	-15	0.95	0	33,362	A
Animal Production	112	25	0	-25	-100	ND	-27	-	
Mining (except Oil and Gas)	212	161	0	-161	-100	ND	-169	-	D
Textile Product Mills	314	34	33	-1	-3	0.14	-92	22,565	D
Furniture and Related Product Manufacturing	337	191	160	-31	-16	0.21	-15	31,424	D
Gasoline Stations	447	1,425	1,146	-279	-20	0.92	-72	22,013	BA

3 star or fewer sectors		Employment		2002-2007 Change				2007 Average Annual Wage (\$)	Projected Growth
Industry	NAICS code	2002	2007	#	%	Location Quotient	Competitive Effect		
Miscellaneous Store Retailers	453	1,311	1,193	-118	-9	0.95	-33	21,432	BA
Transit and Ground Passenger Transportation	485	60	38	-22	-37	0.07	-52	16,487	BA
Data Processing, Hosting and Related Services	518	1482	0	-1482	-100	ND	-119	-	BA
Other Information Services	519	44	0	-44	-100	ND	-1,423	-	BA
Amusement, Gambling, and Recreation Industries	713	1,413	1,238	-175	-12	0.61	0	14,378	BA
Accommodation	721	1,760	1,775	15	1	0.66	0	16,361	BA

Methodology and Sourcing

Projected Growth Grading Scale:

AA=above average

A=average

BA=below average

D=decline

Sectors are rated on 6 factors: 2002-2007 employment growth, 2002-2007 employment growth rate, location quotient, competitive effect, average annual wage, and projected growth.

Stars are based on: 2002-2007 employment growth of 100 or more, 2002-2007 employment growth rate greater than 5.8% (overall county job growth rate), location quotient of at least 1.25, competitive effect greater than 0, average annual wage greater than \$38,230 (2007 average for all jobs in the county), and average or above average projected growth.

Location Quotient: percentage of employment in the sector in the county divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in the county; based on 2007 data.

Competitive Effect: based on shift-share analysis; represents the change in employment in the sector in the county after accounting for overall US employment growth and growth/decline in the sector in the US.

Source: Bureau of Labor Statistics; projections based on data from EMSI and SC Department of Commerce.



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